

**FIG. 3**

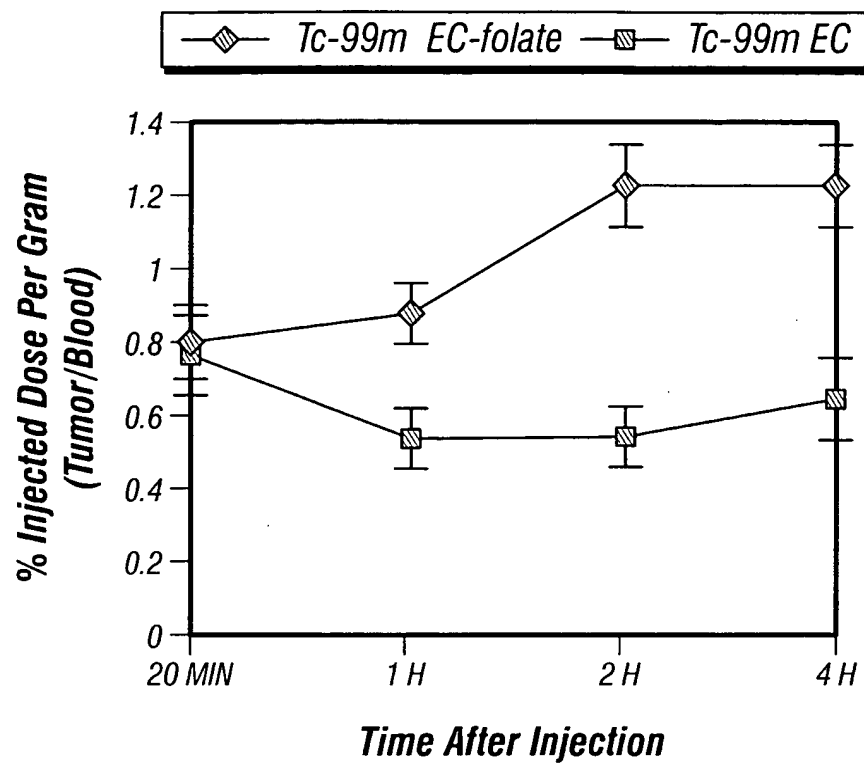


FIG. 4

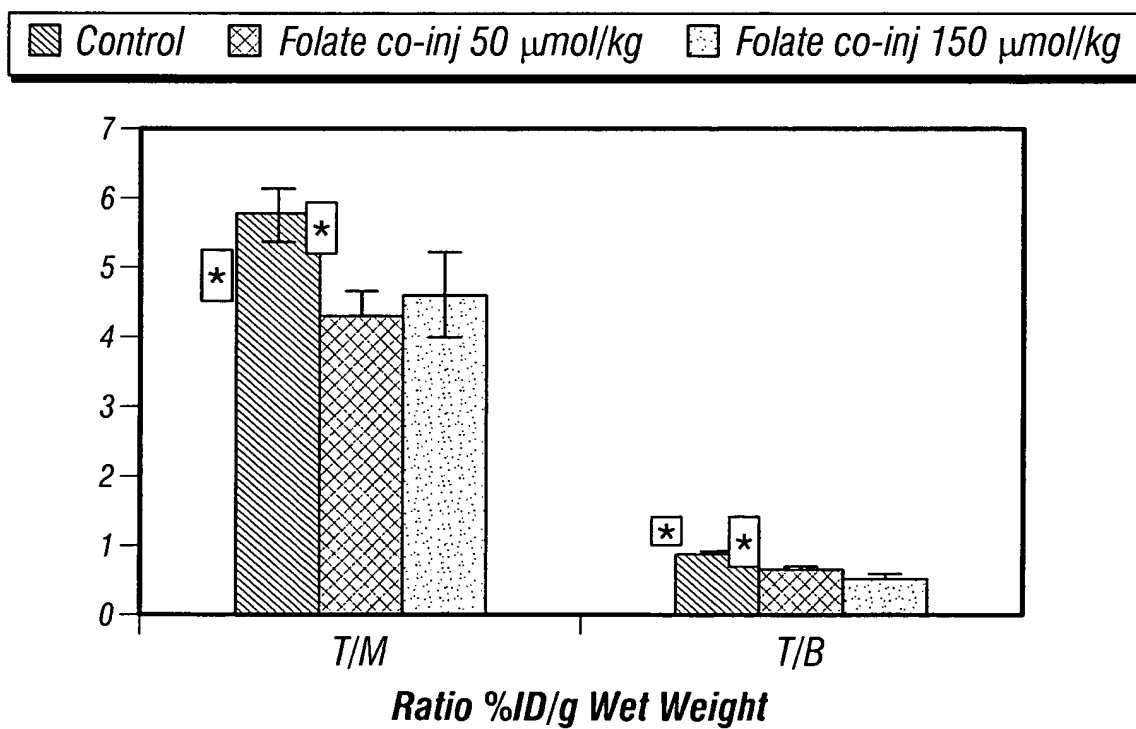
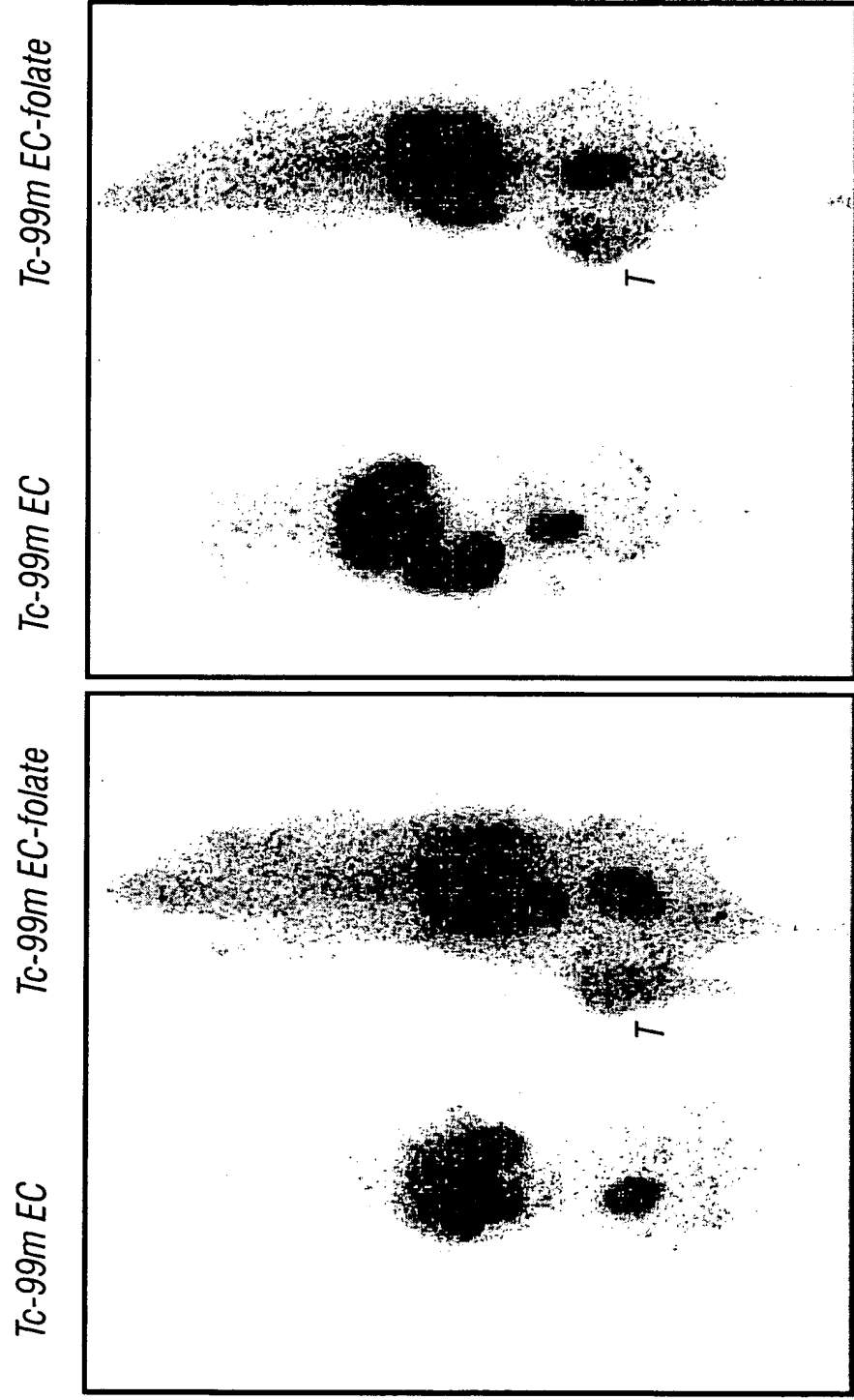
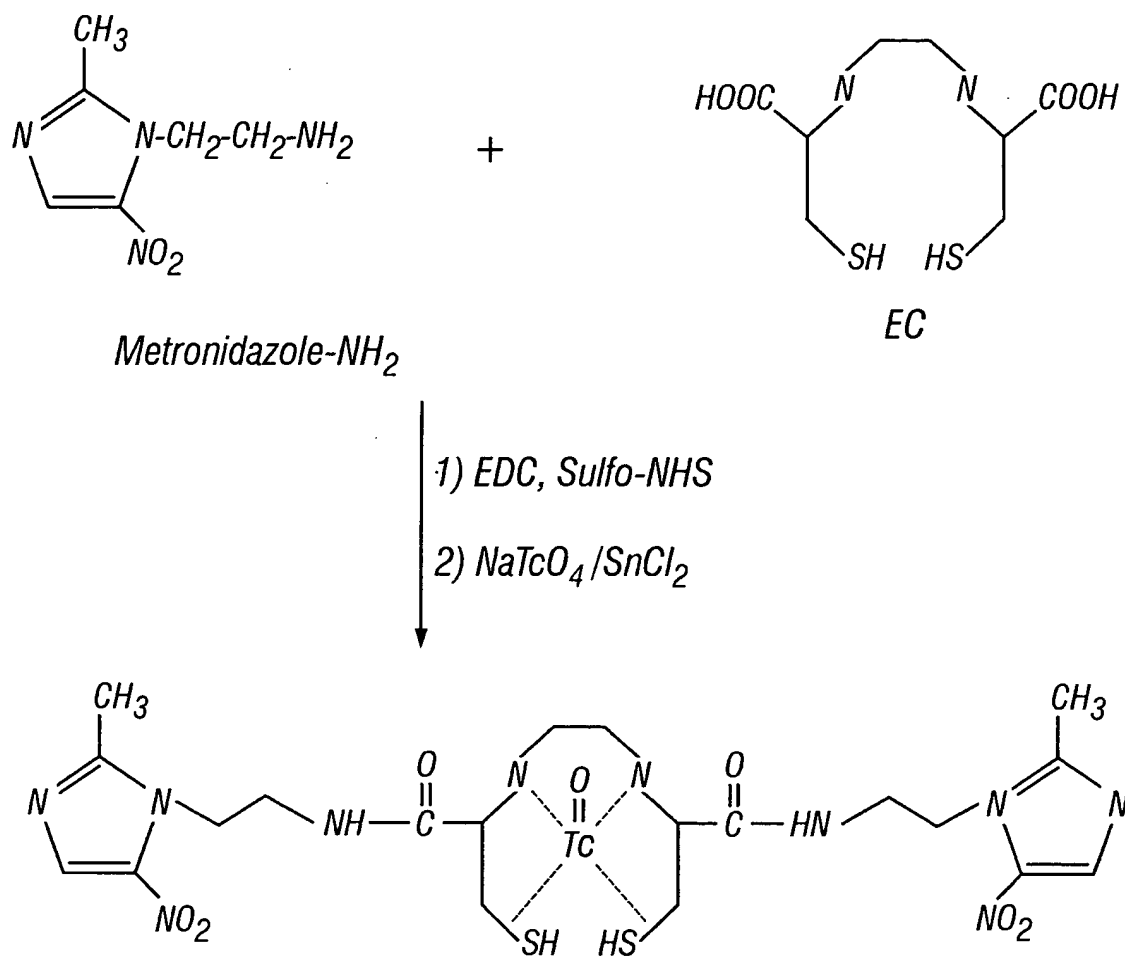


FIG. 5

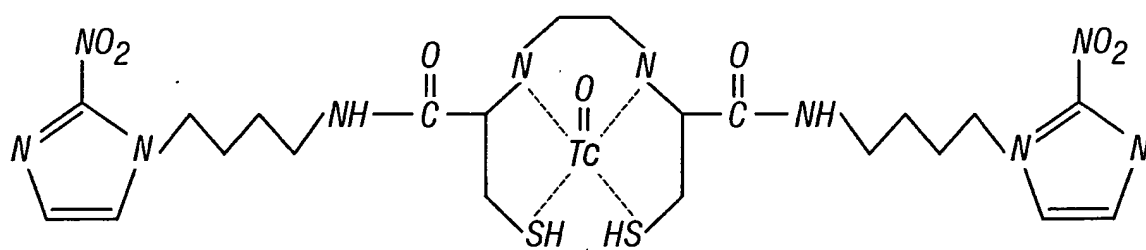
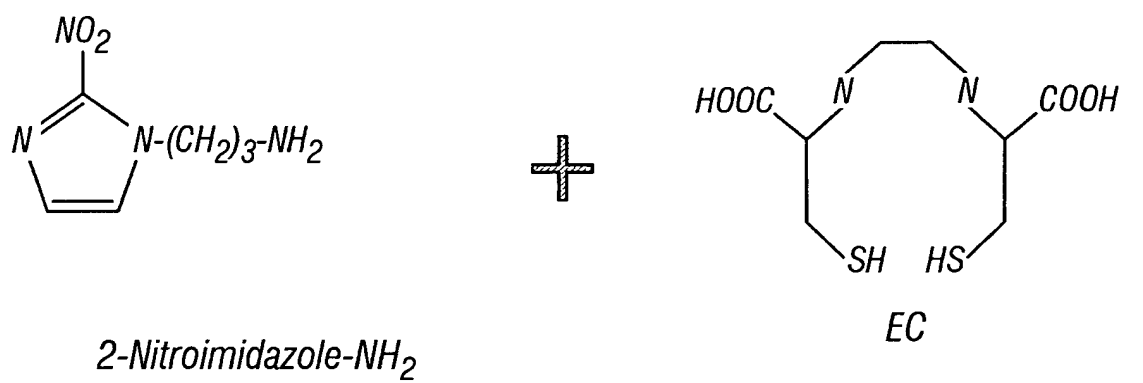


**FIG. 6A**

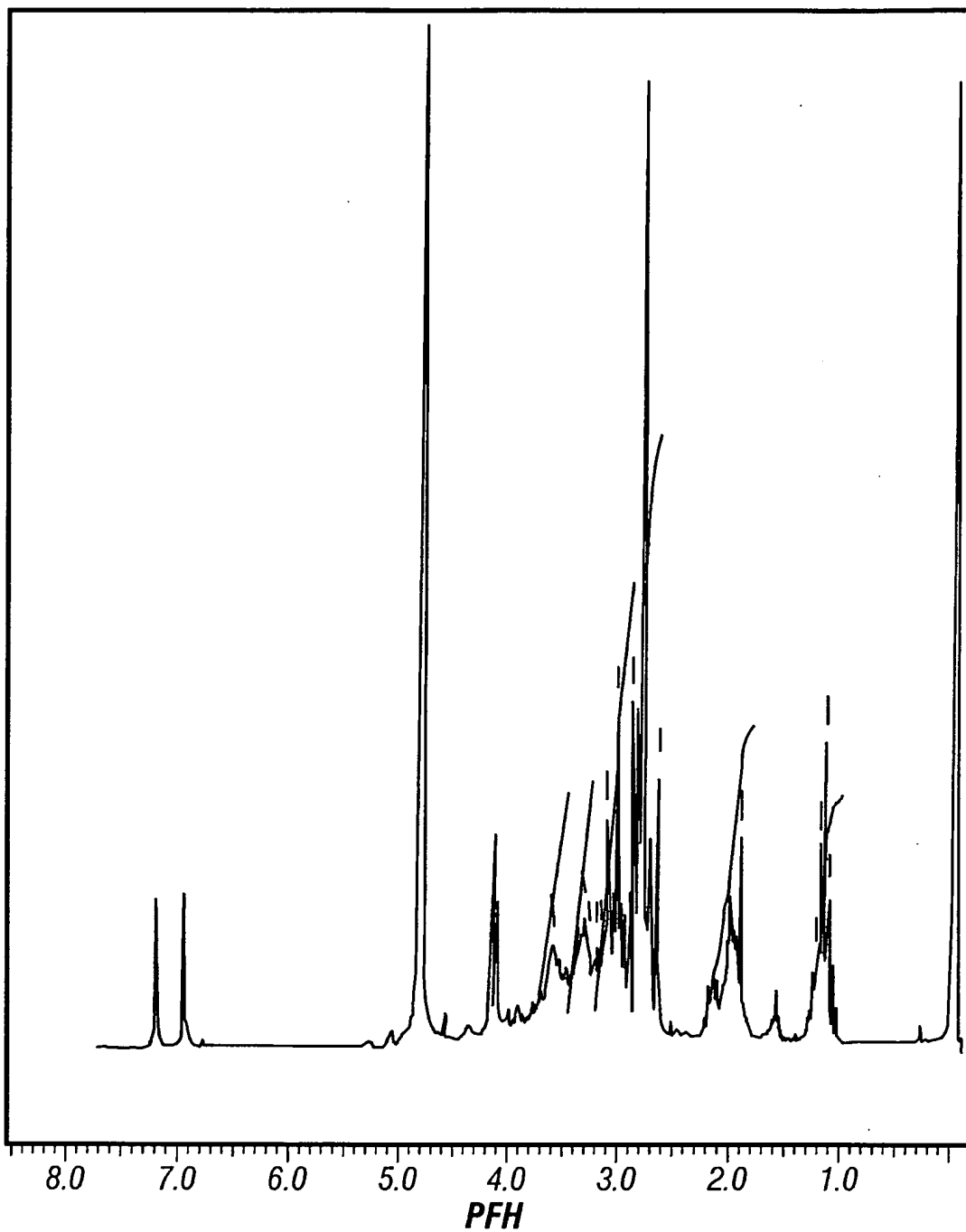
**FIG. 6B**



**FIG. 7**

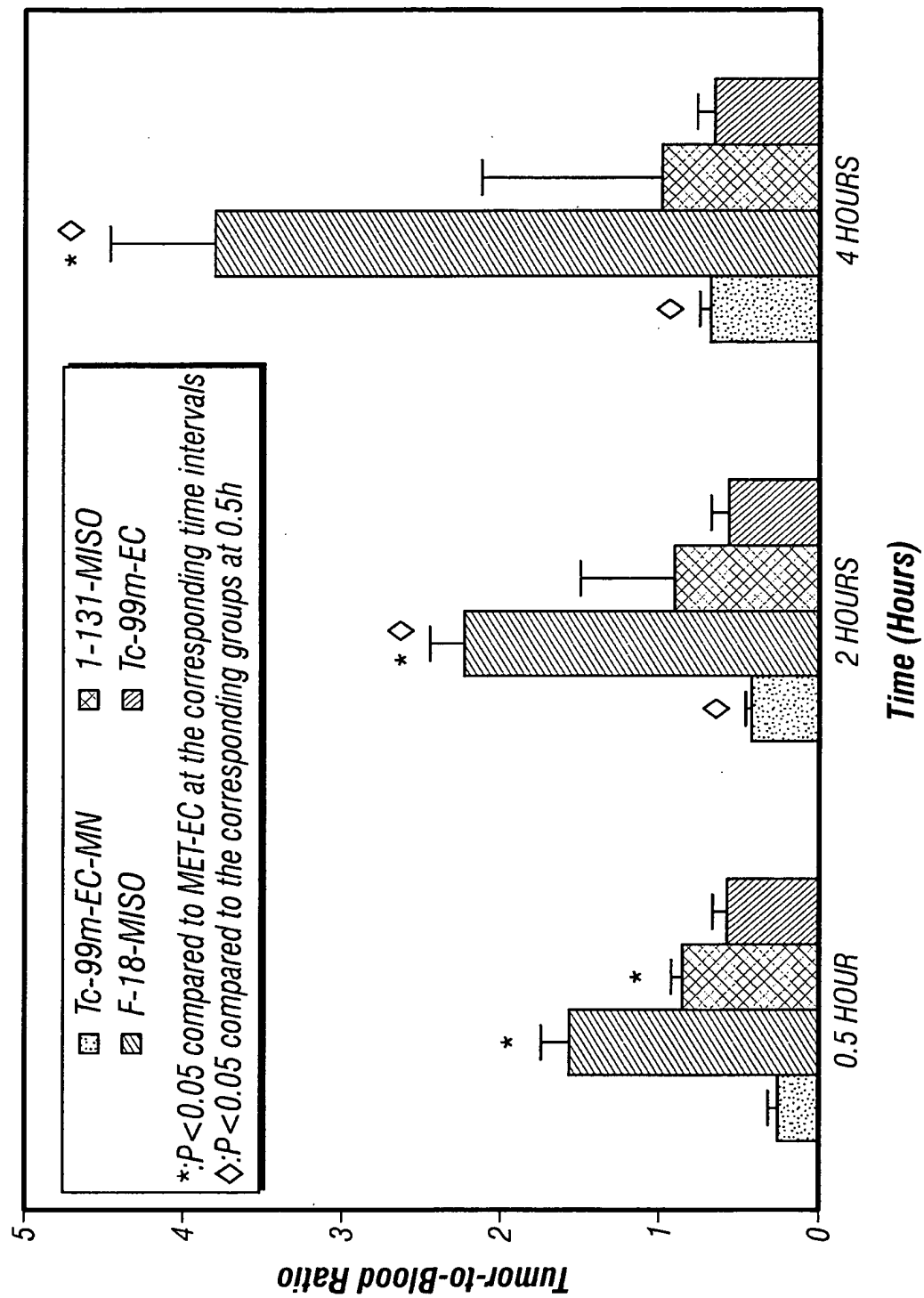


**FIG. 8A**

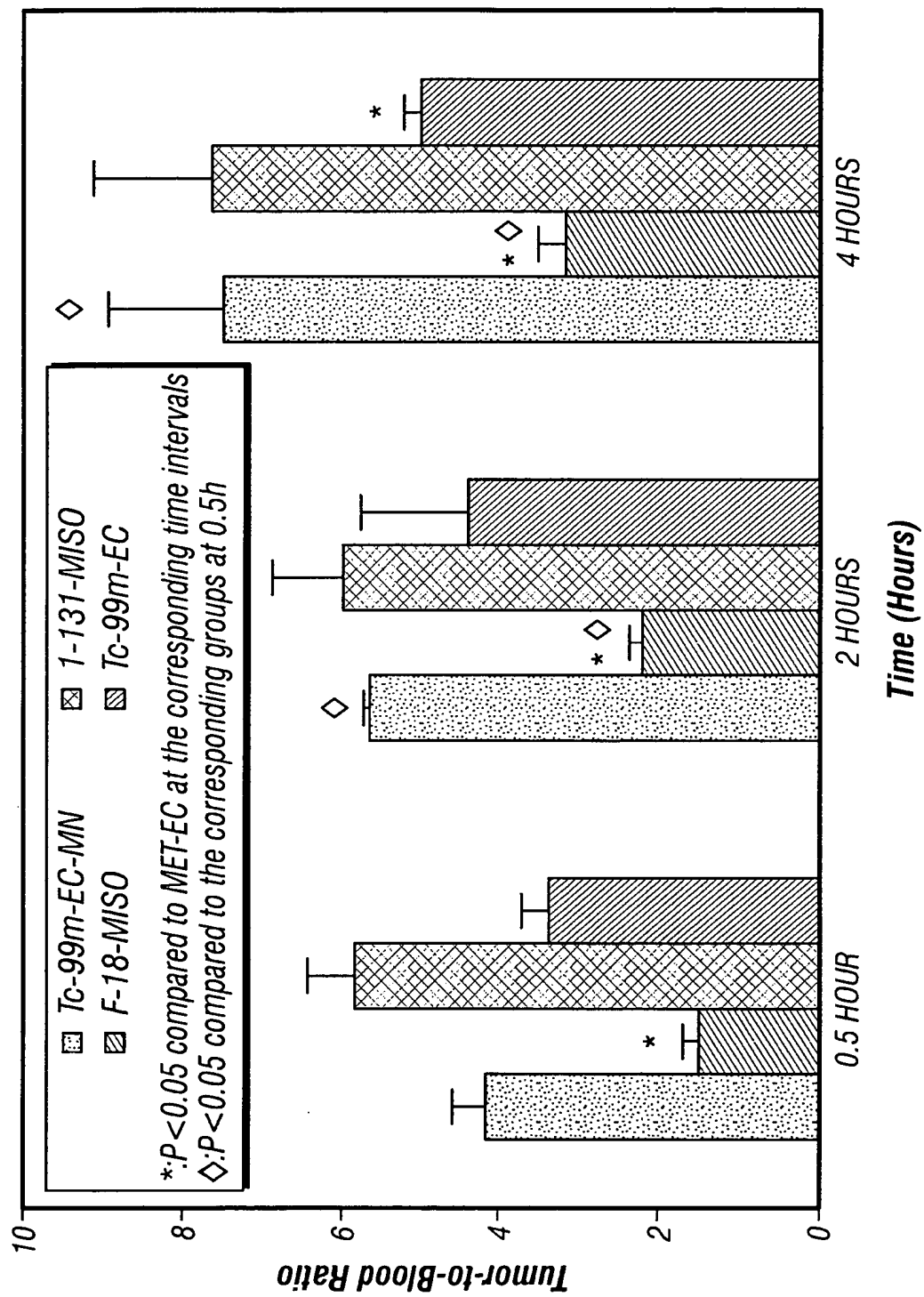


**FIG. 8B**

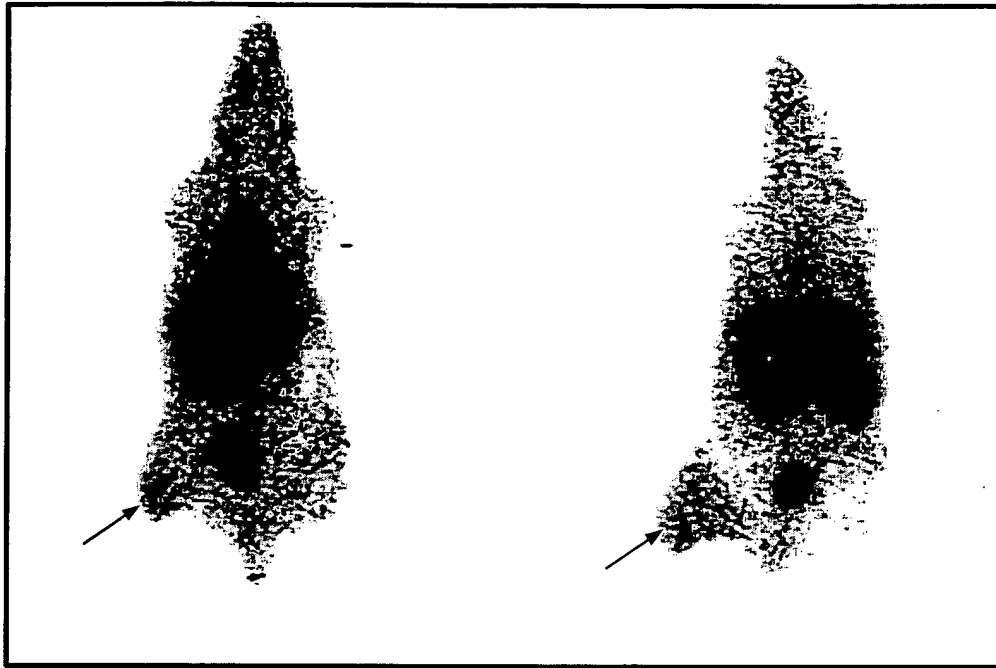




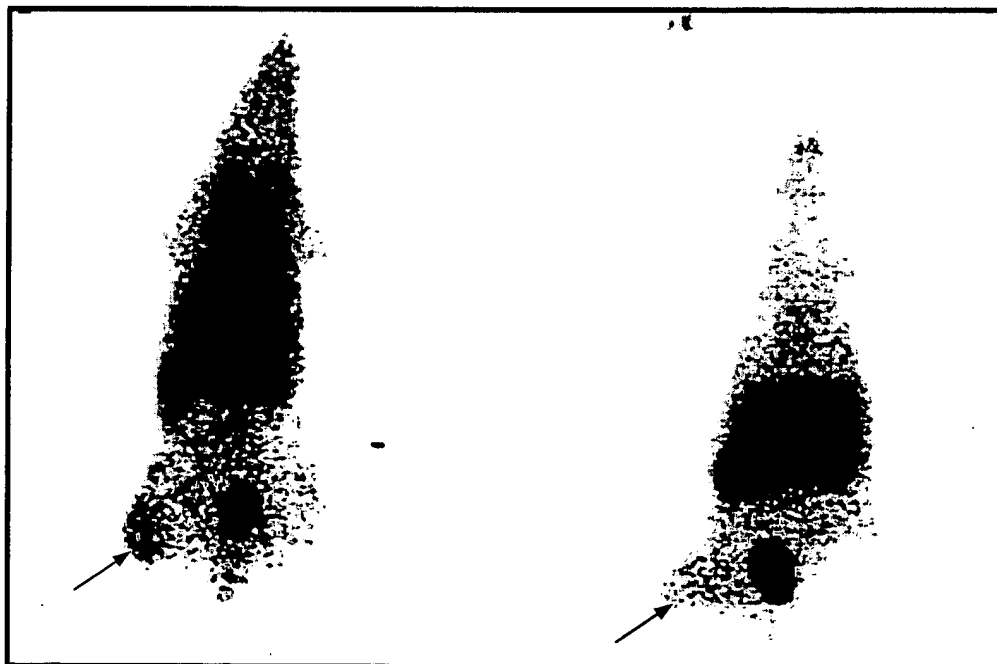
**FIG. 9**



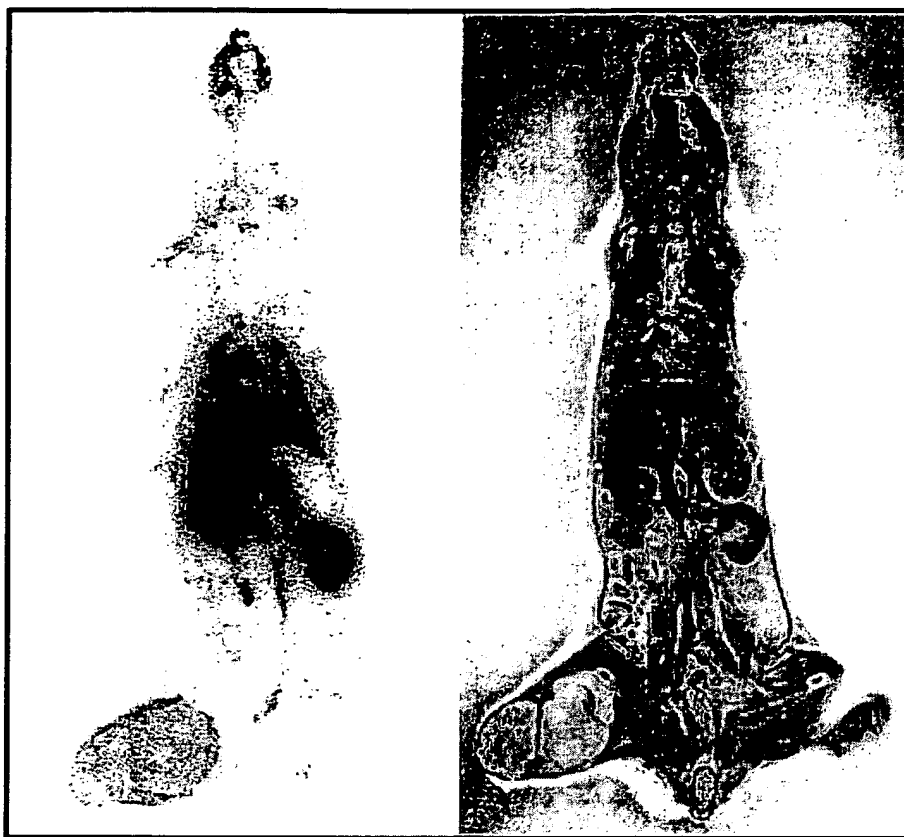
**FIG. 10**



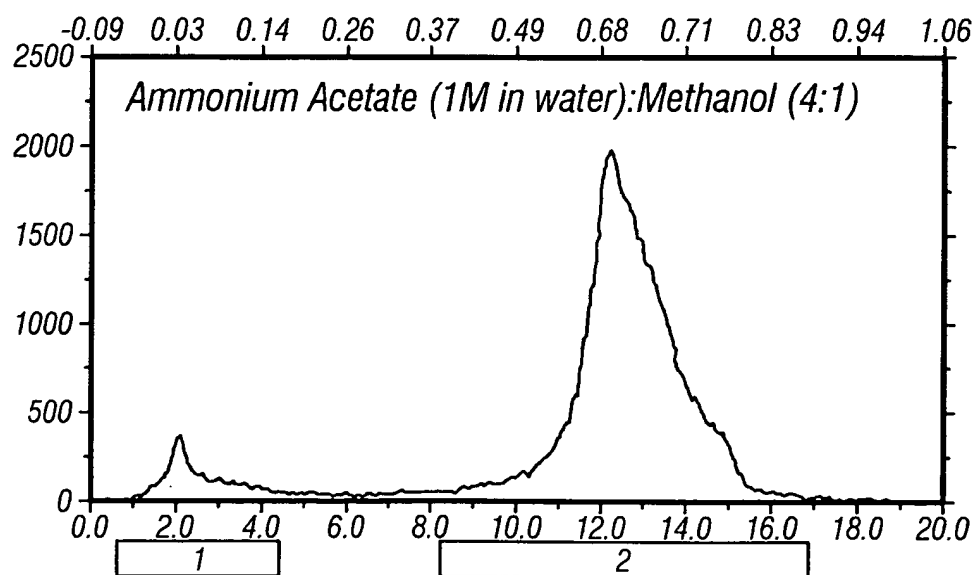
*FIG. 11A*



*FIG. 11B*



**FIG. 12**



**FIG. 13**

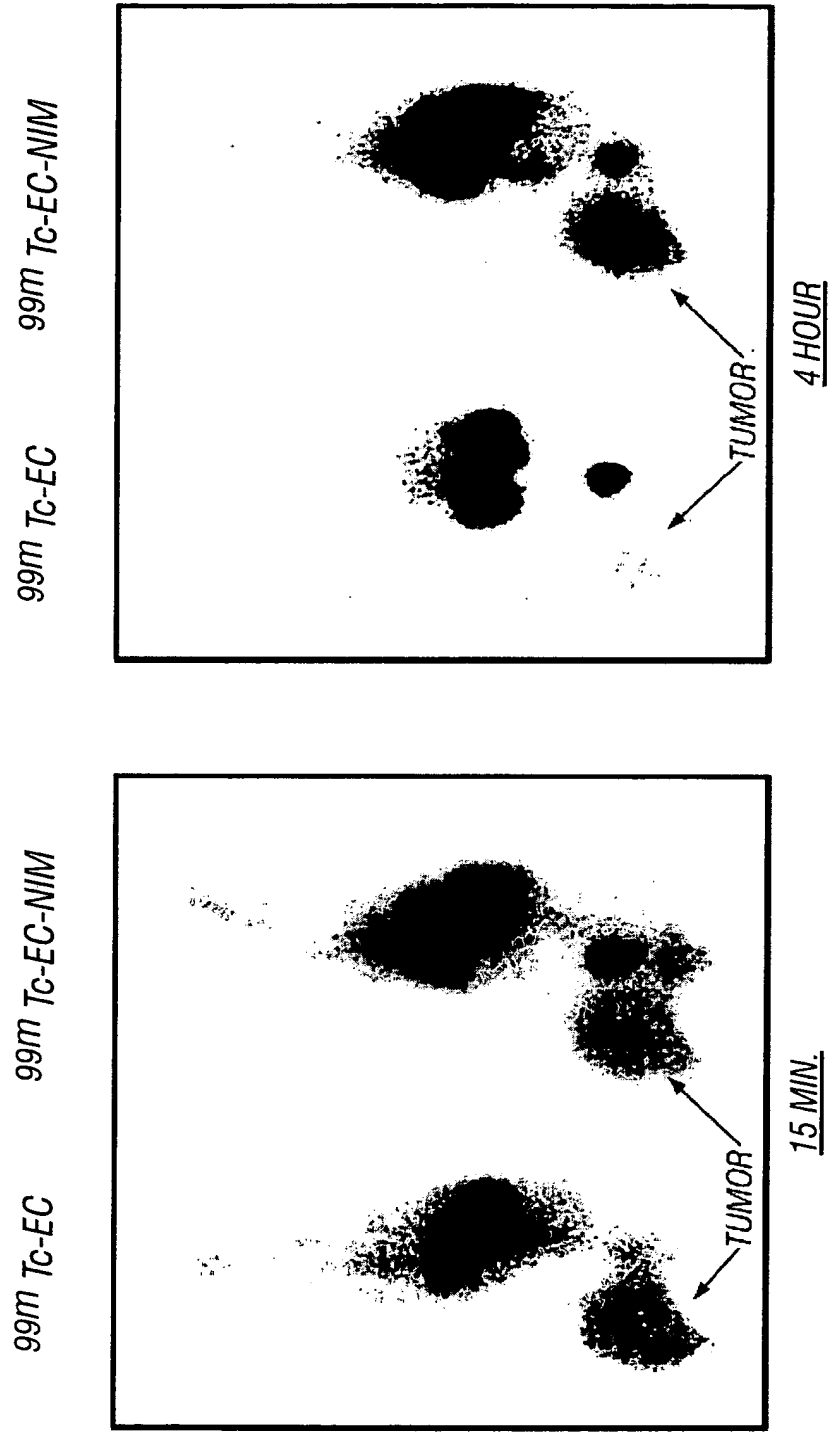
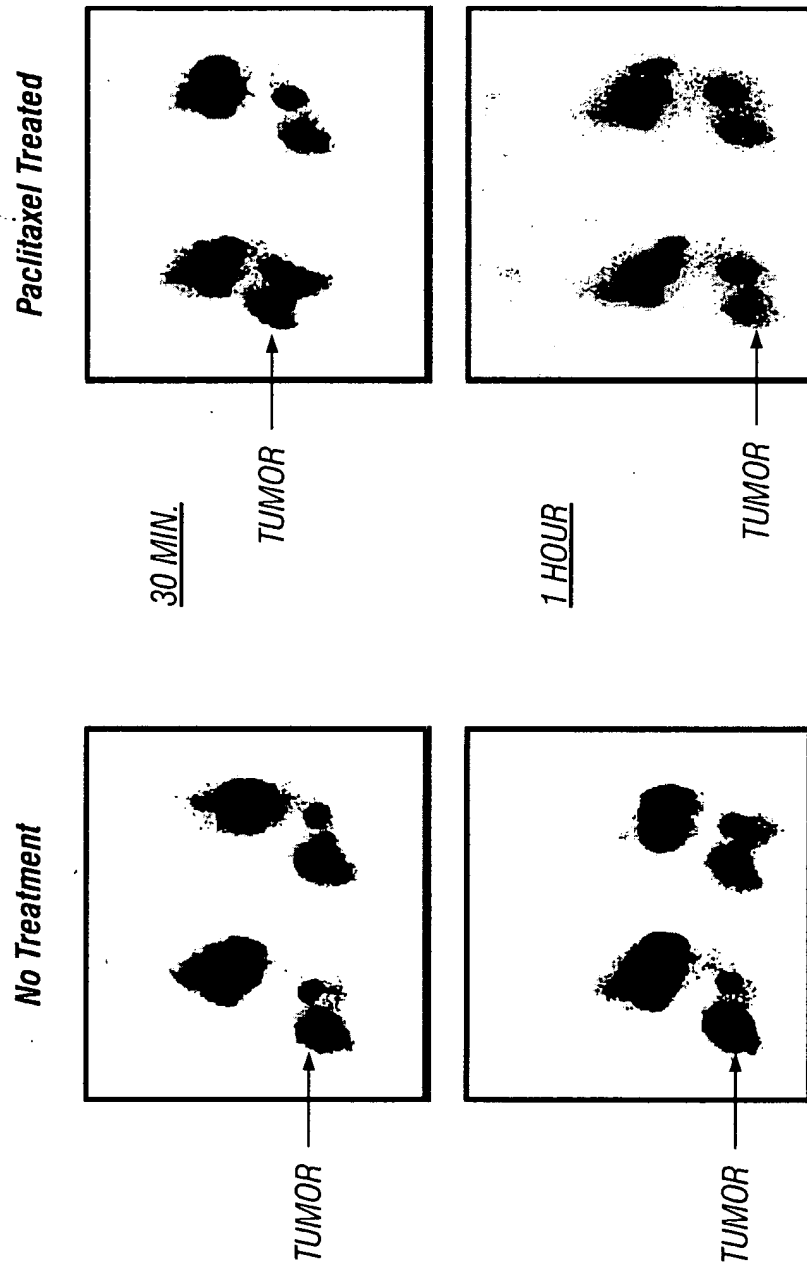


FIG. 14A



**FIG. 14B**

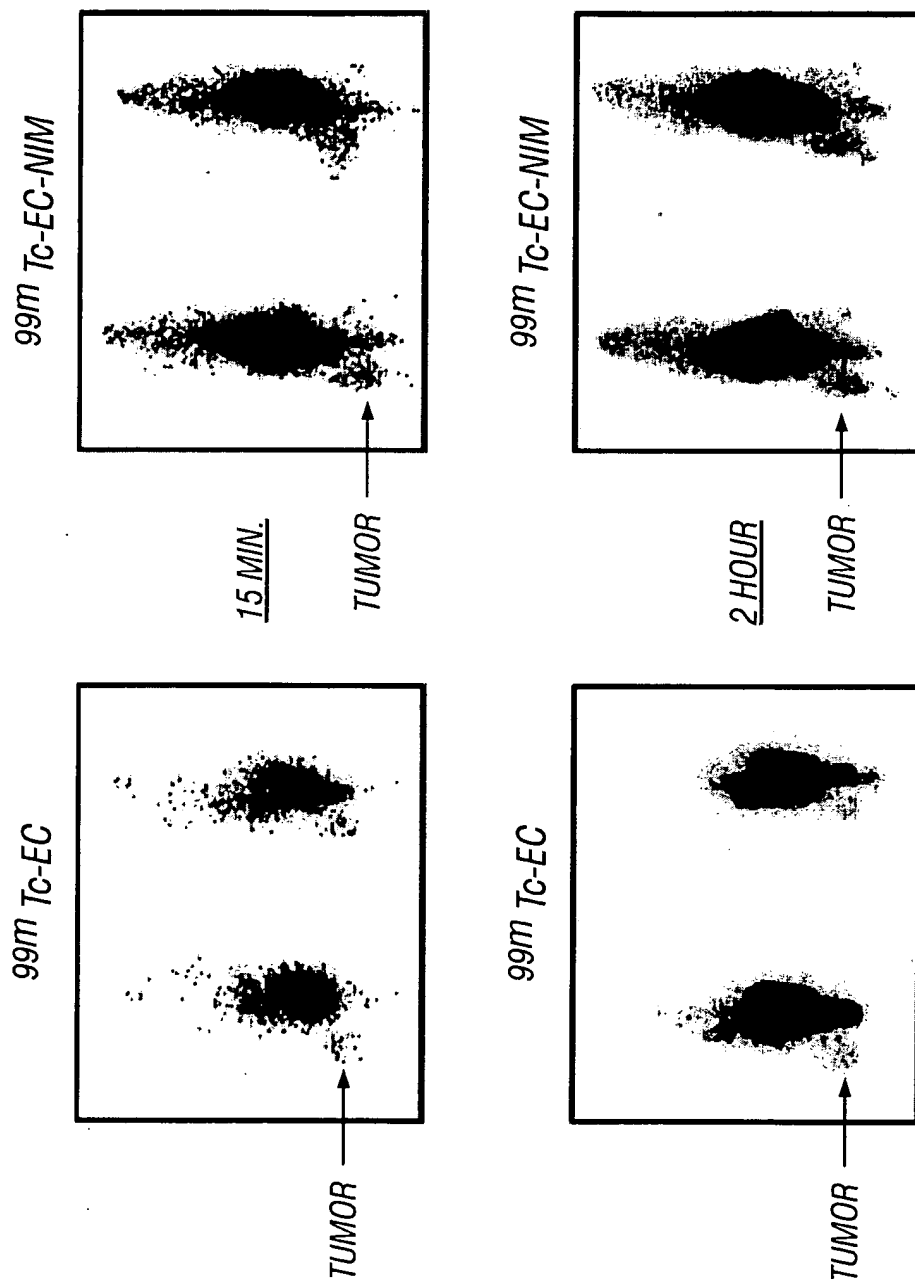
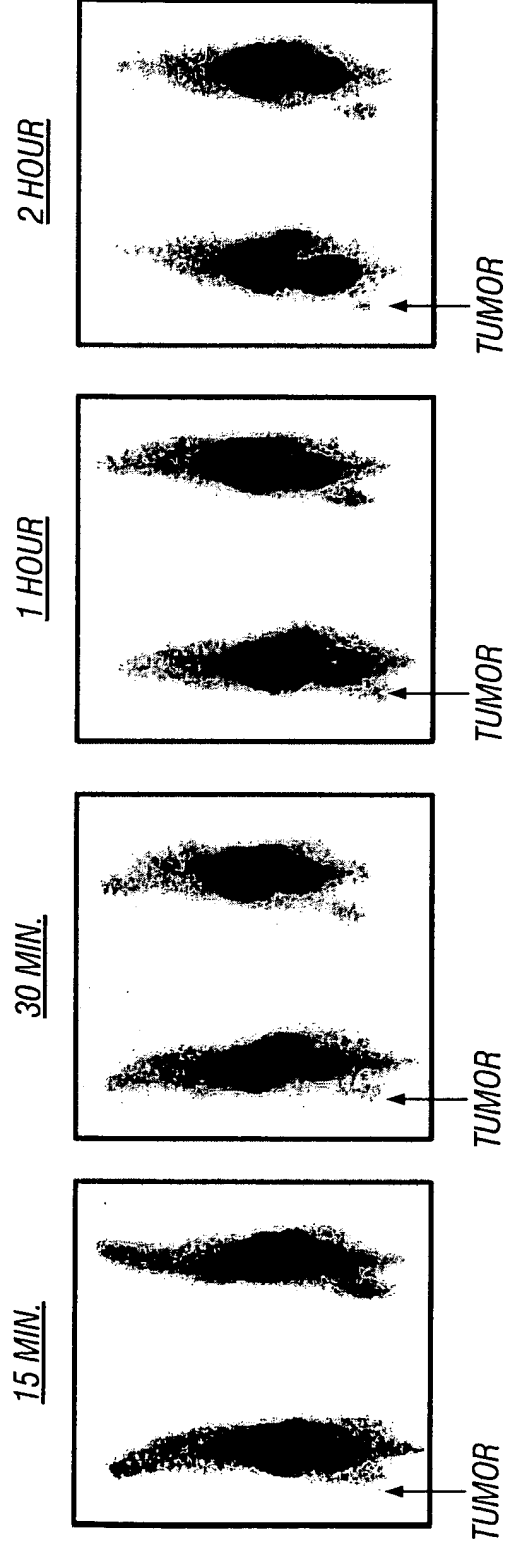


FIG. 15A

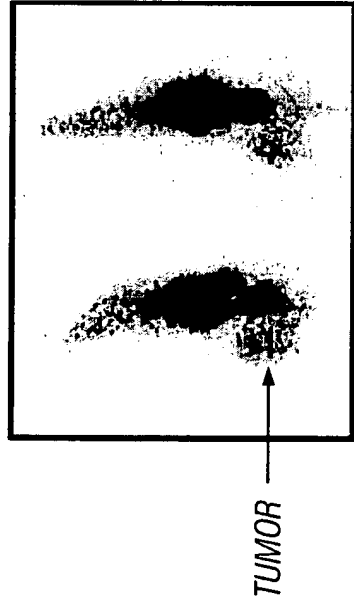
***$^{99m}\text{Tc}$ -EC-Nitroimidazole (NIM)  
(100 $\mu\text{Ci}$ /mouse, iv.)***



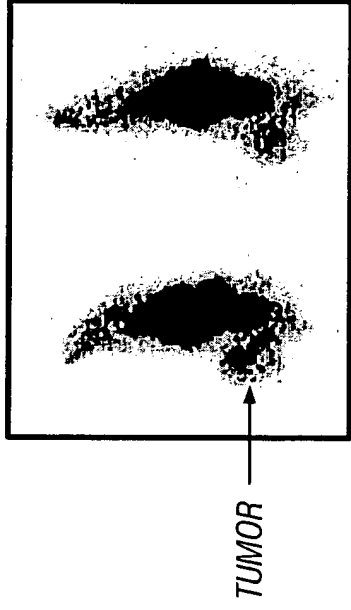
**FIG. 15B**



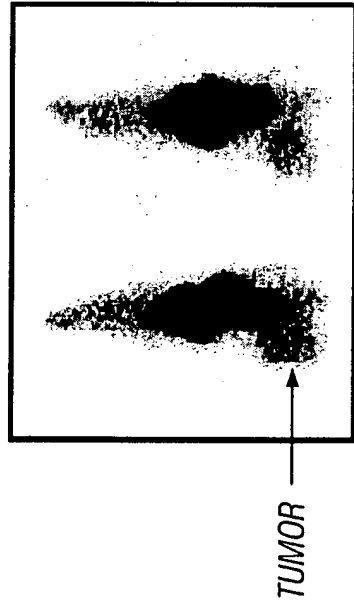
*<sup>99m</sup>Tc-EC-Nitroimidazole (NIM)*



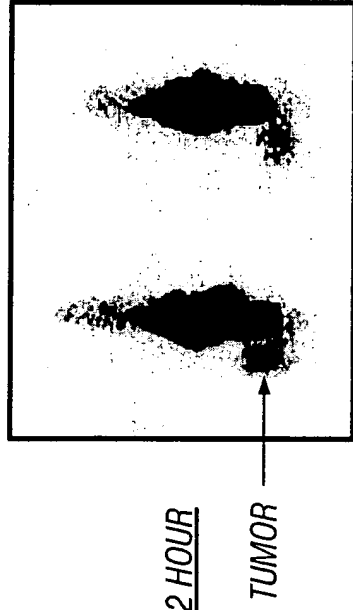
15 MIN.



30 MIN.



1 HOUR



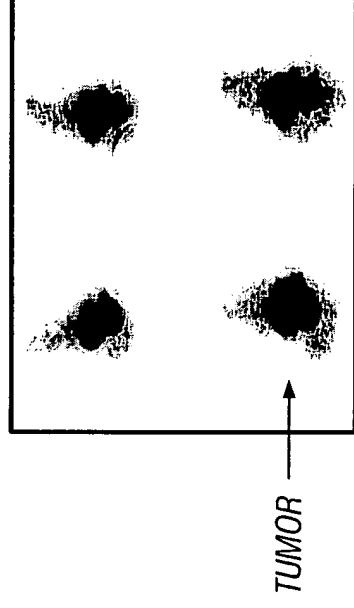
2 HOUR

**FIG. 15C**

*<sup>99m</sup>Tc-EC-Nitroimidazole (NIM)  
(100  $\mu$ Ci/mouse, iv.)*



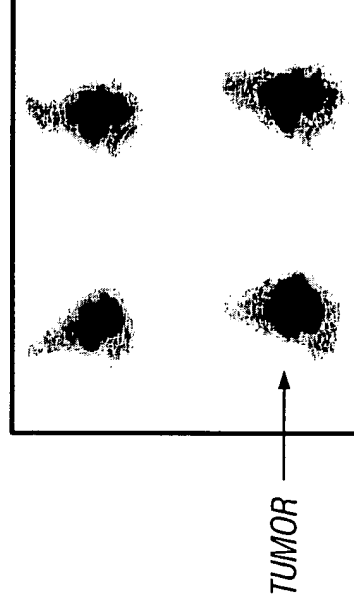
15 MIN.



30 MIN.

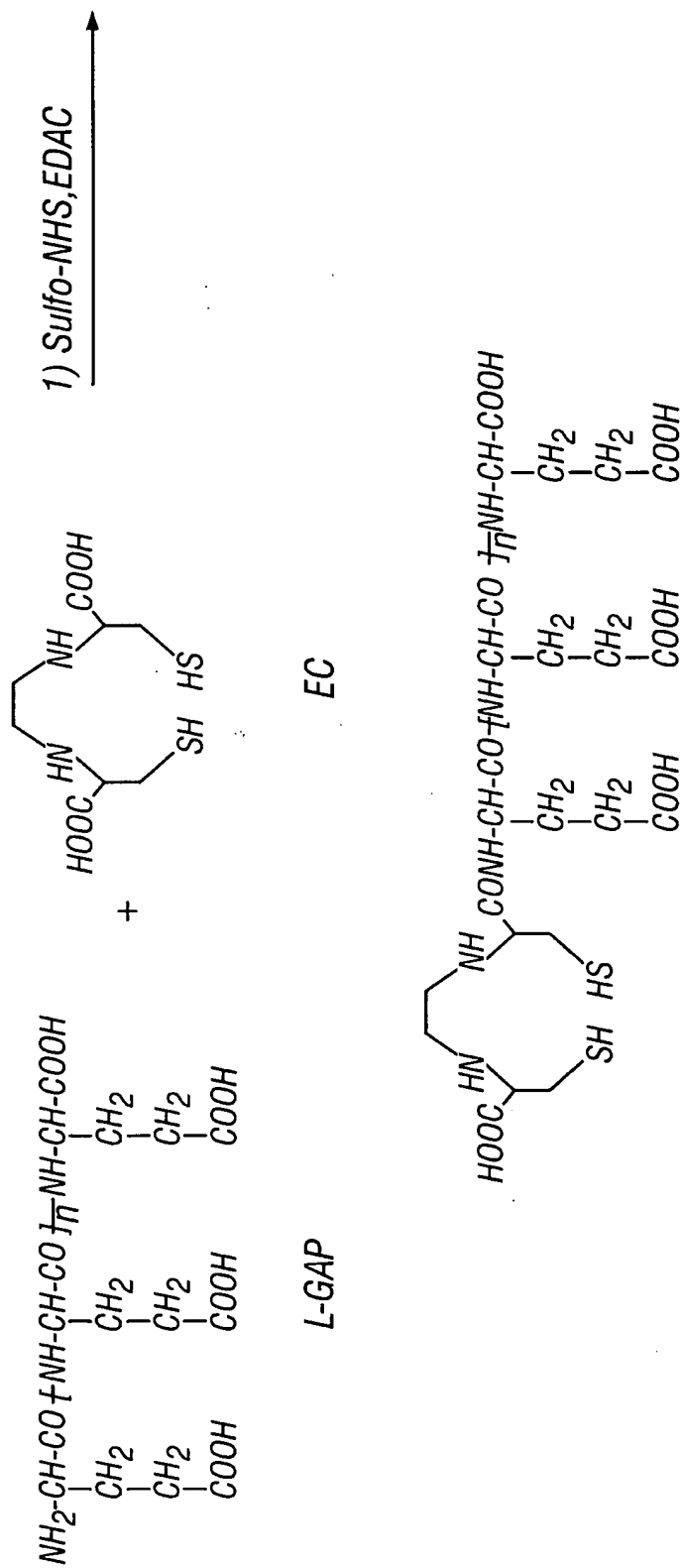


1 HOUR



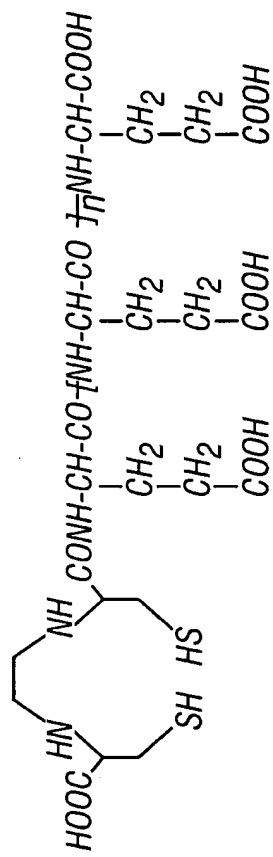
2 HOUR

**FIG. 15D**



L-GAP

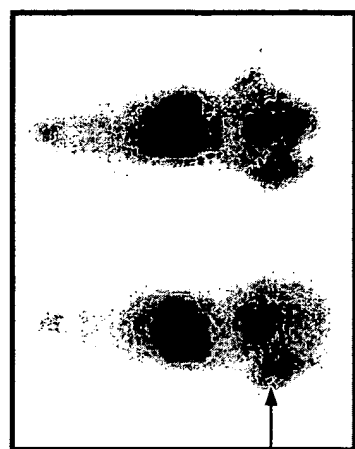
EC



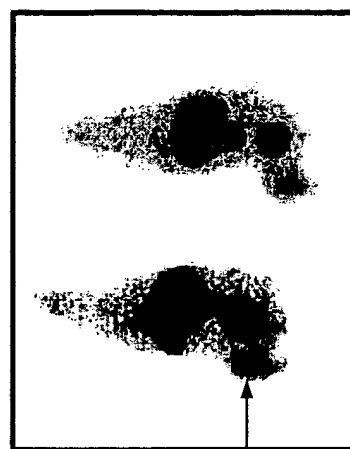
EC-GAP

Synthesis of EC-GAP

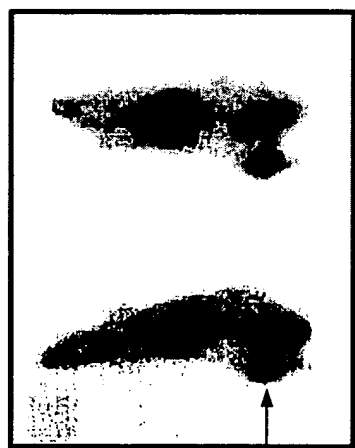
FIG. 16



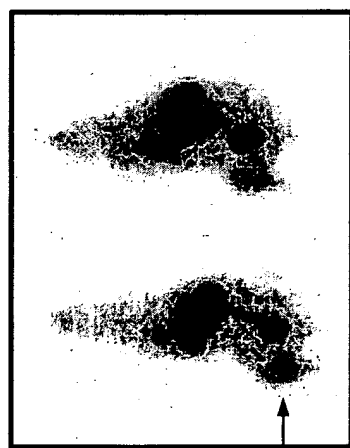
30 MIN.



2 HOUR



15 MIN.



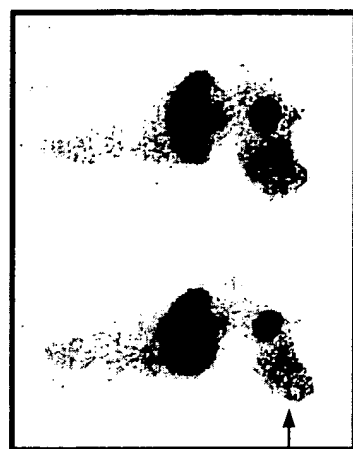
1 HOUR

**FIG. 17**



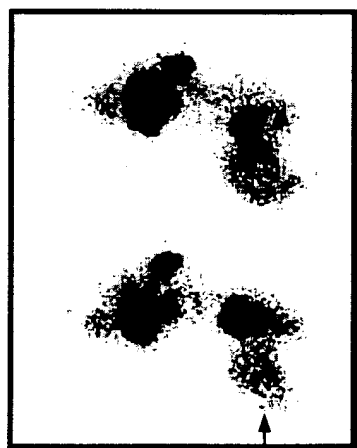
30 MIN.

TUMOR



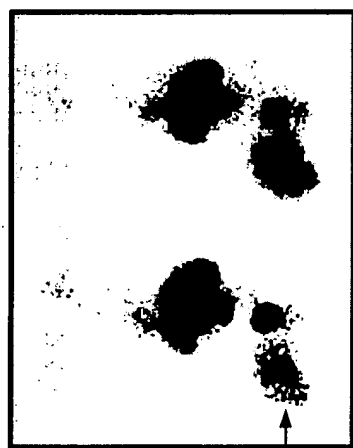
2 HOUR

TUMOR



15 MIN.

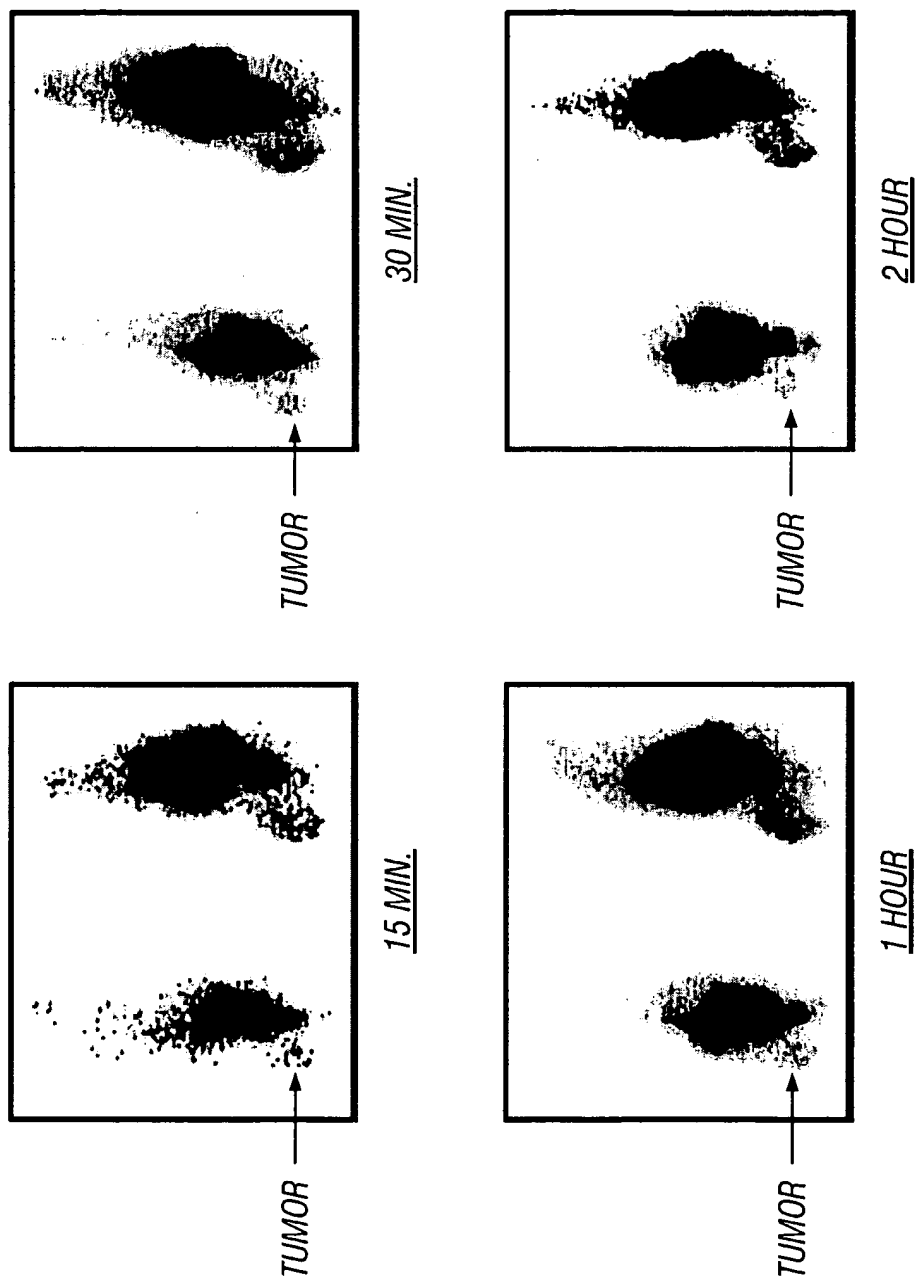
TUMOR



1 HOUR

TUMOR

**FIG. 18**



**FIG. 19A**

$^{99m}\text{Tc}$ -EC-Annexin V  
(100  $\mu\text{Ci}$ /mouse, iv.)

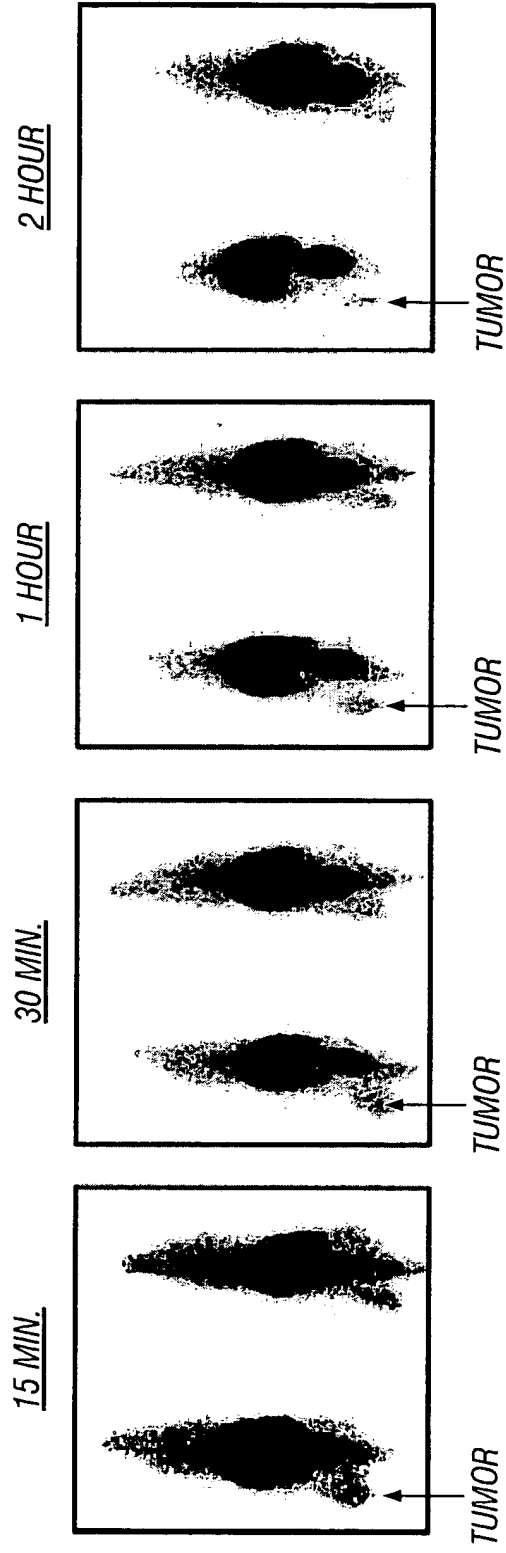


FIG. 19B

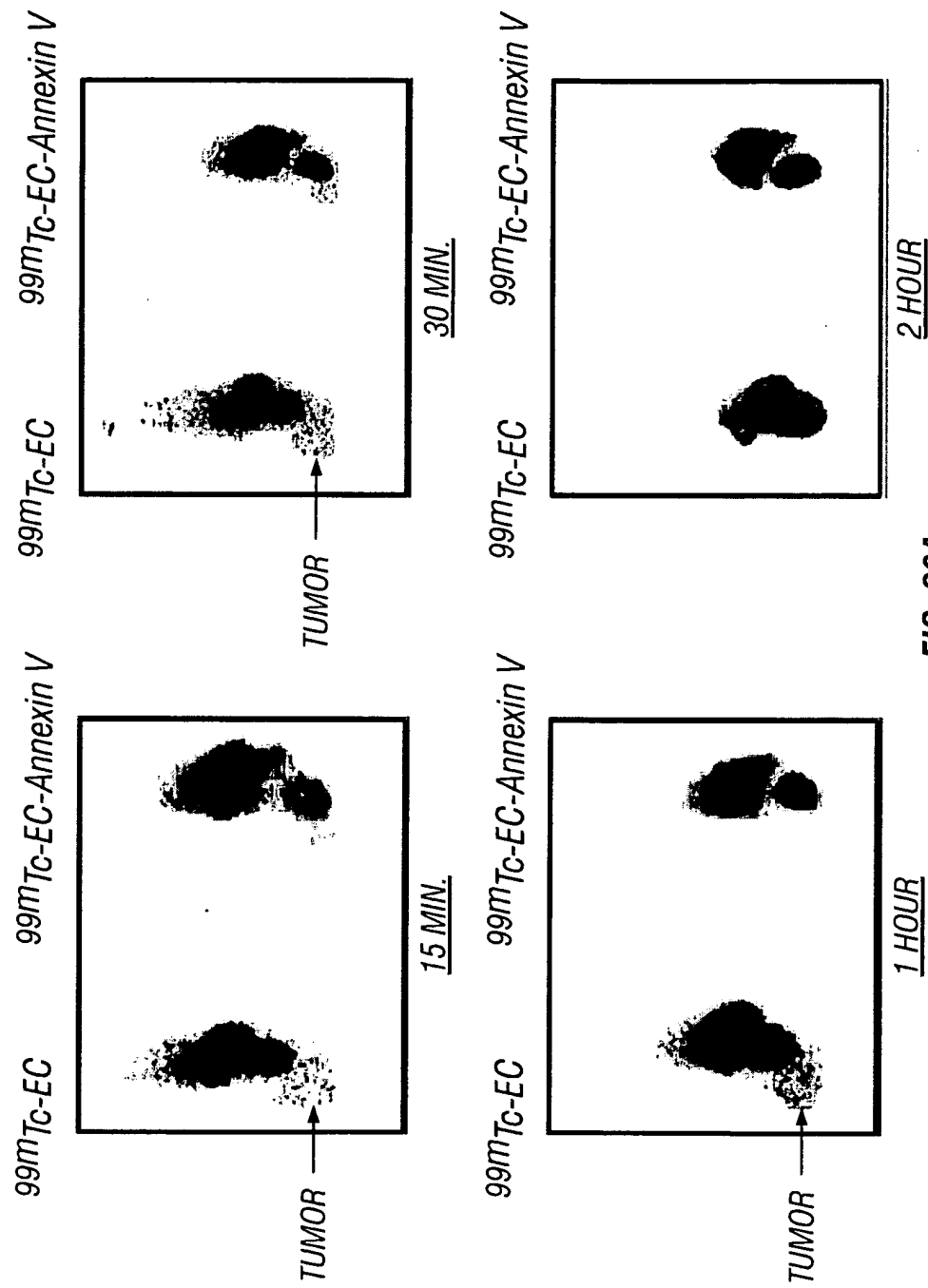
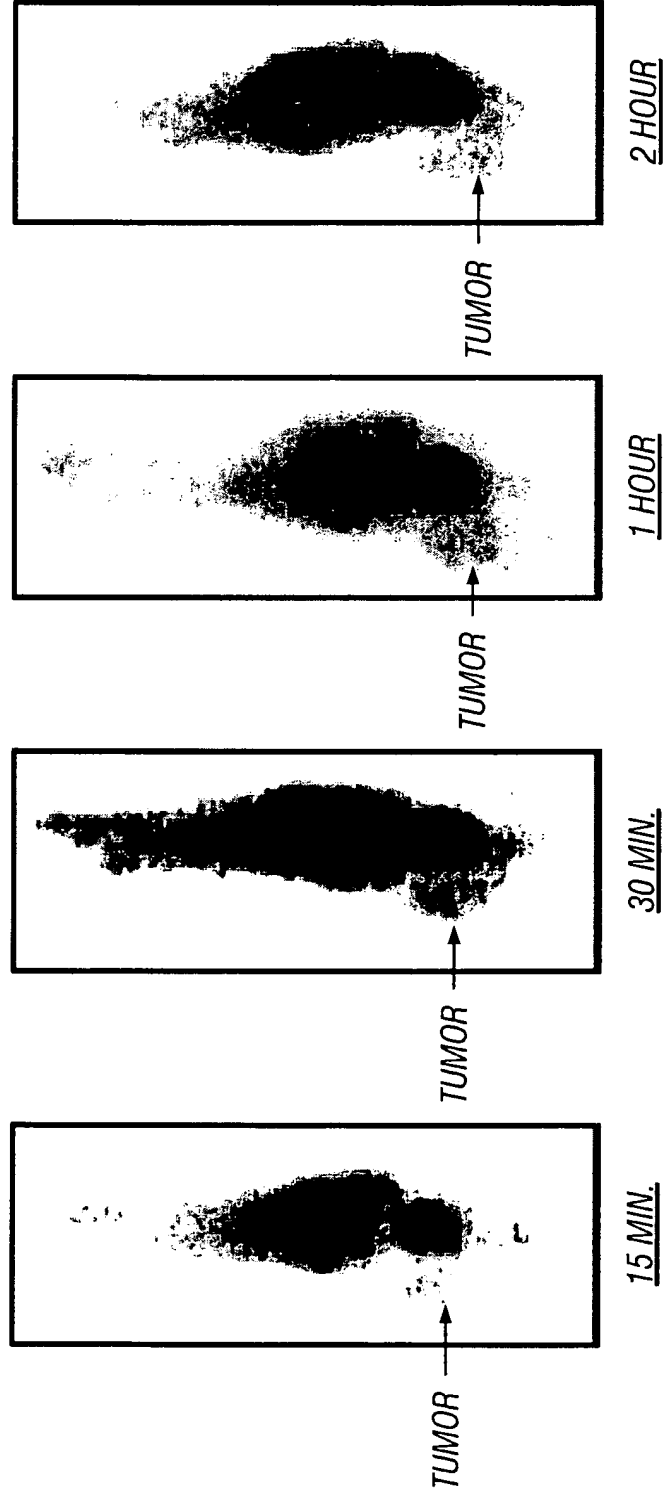


FIG. 20A





**FIG. 20B**

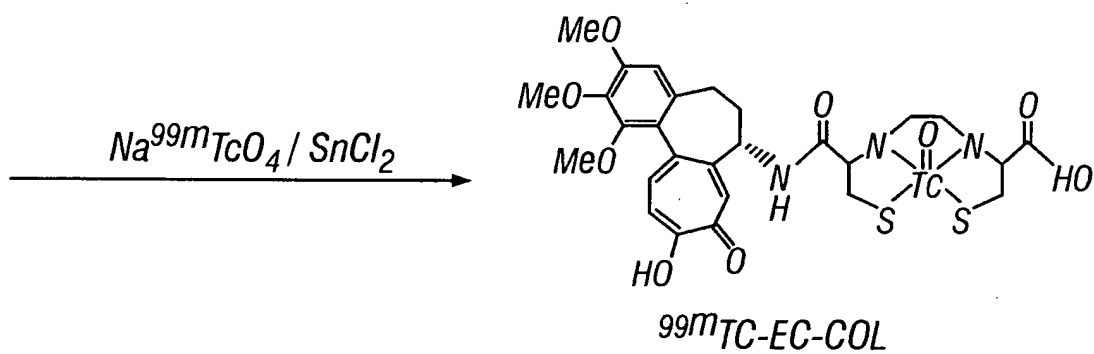
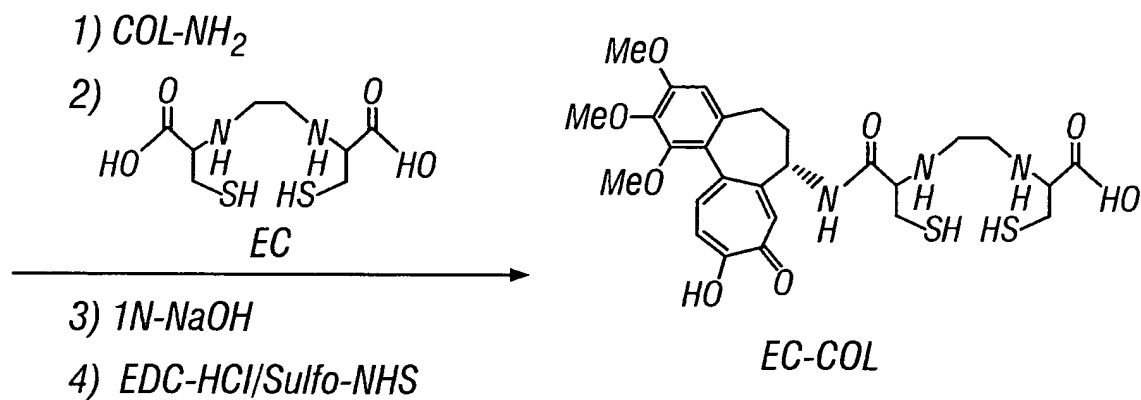
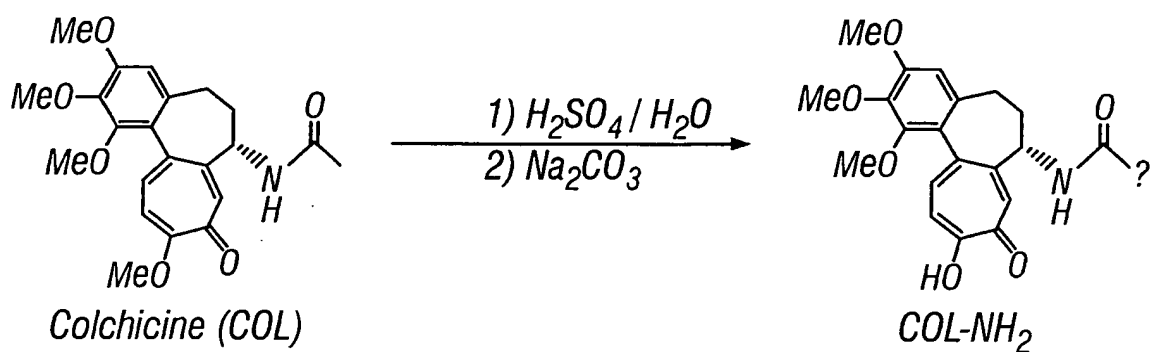


FIG. 21

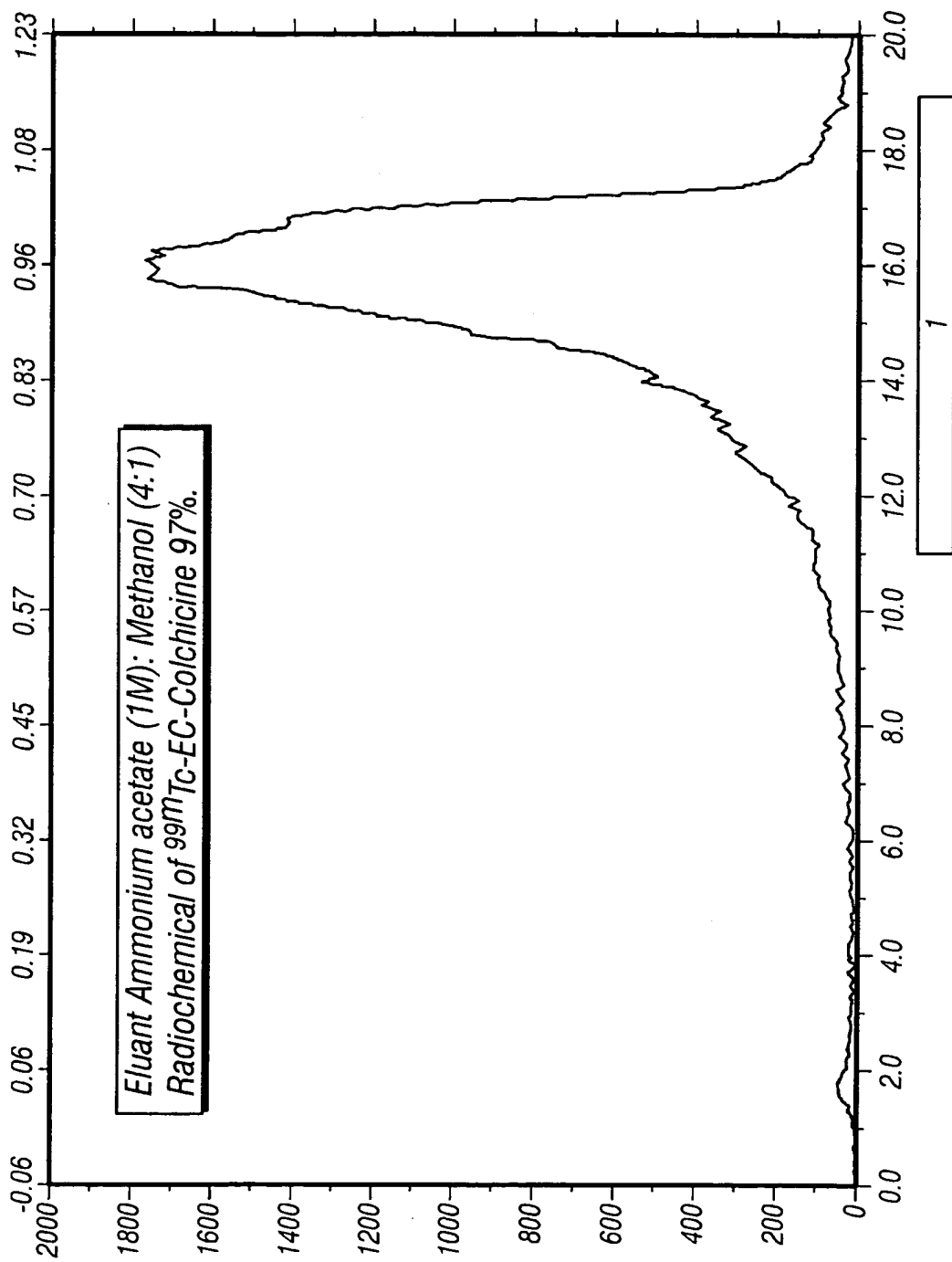


FIG. 22

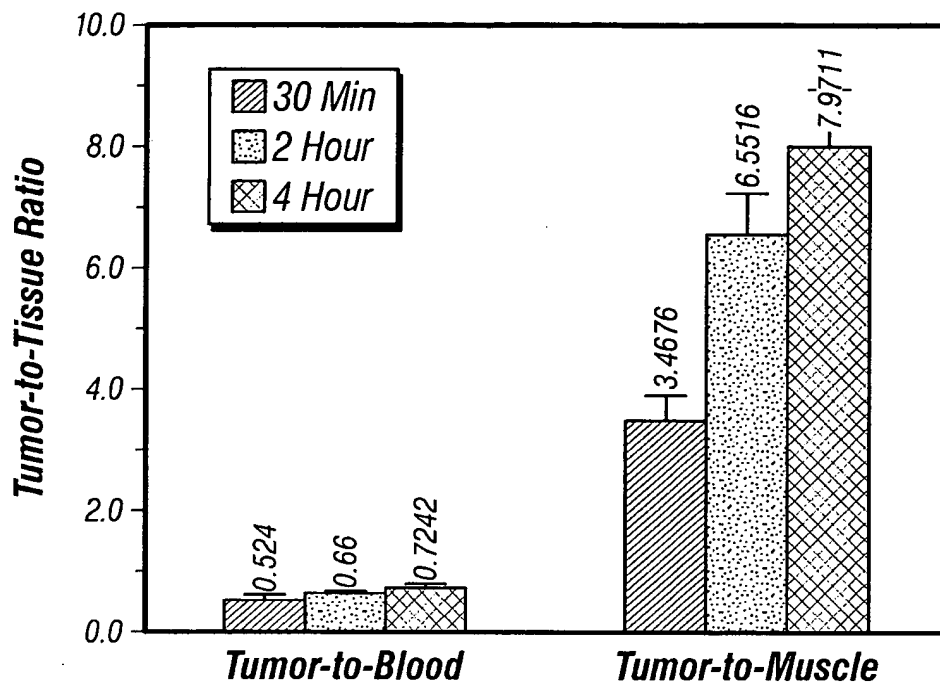


FIG. 23

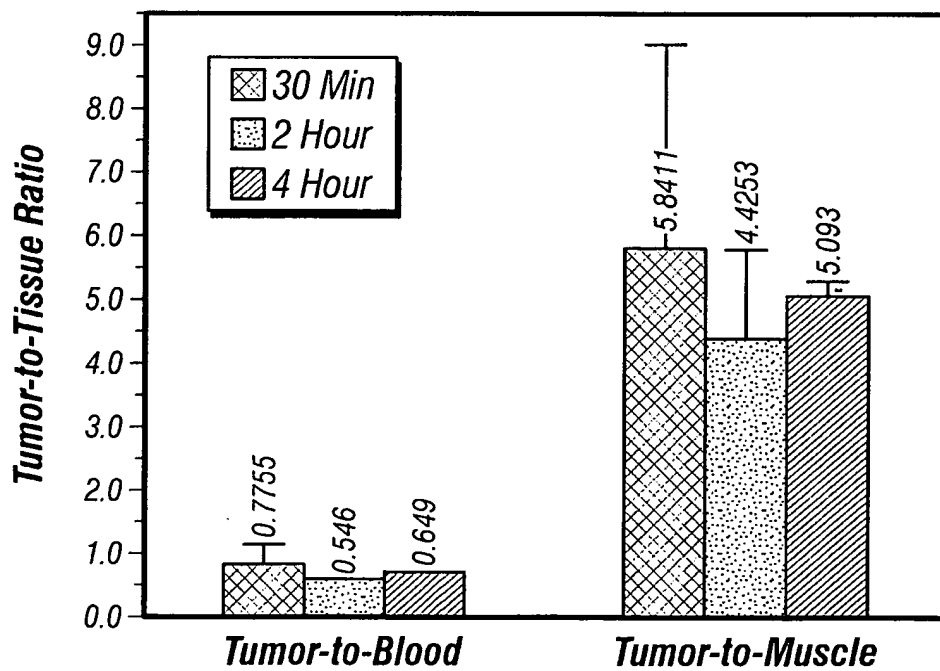
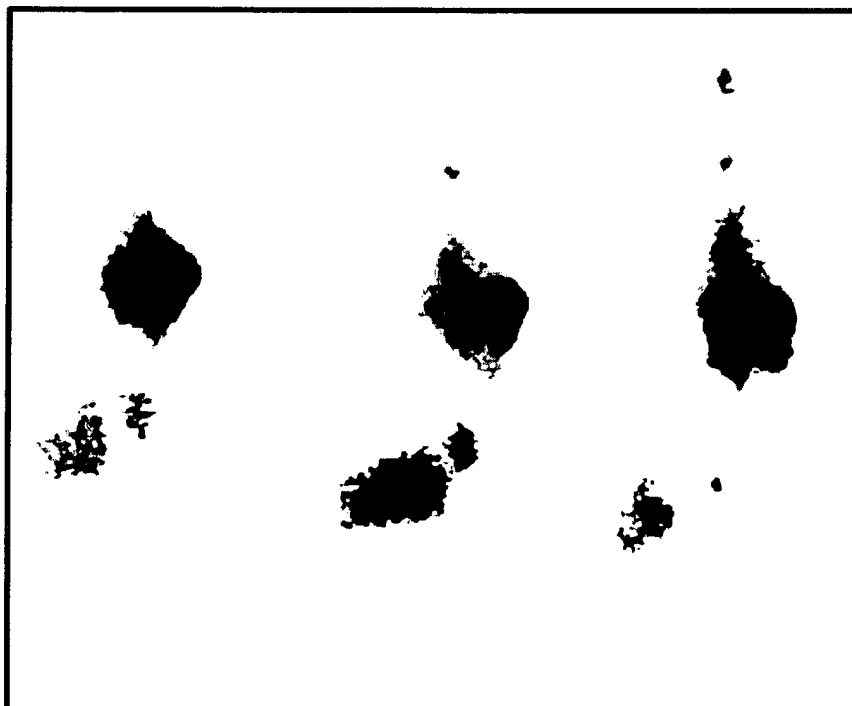


FIG. 24



**FIG. 25**



**FIG. 26**

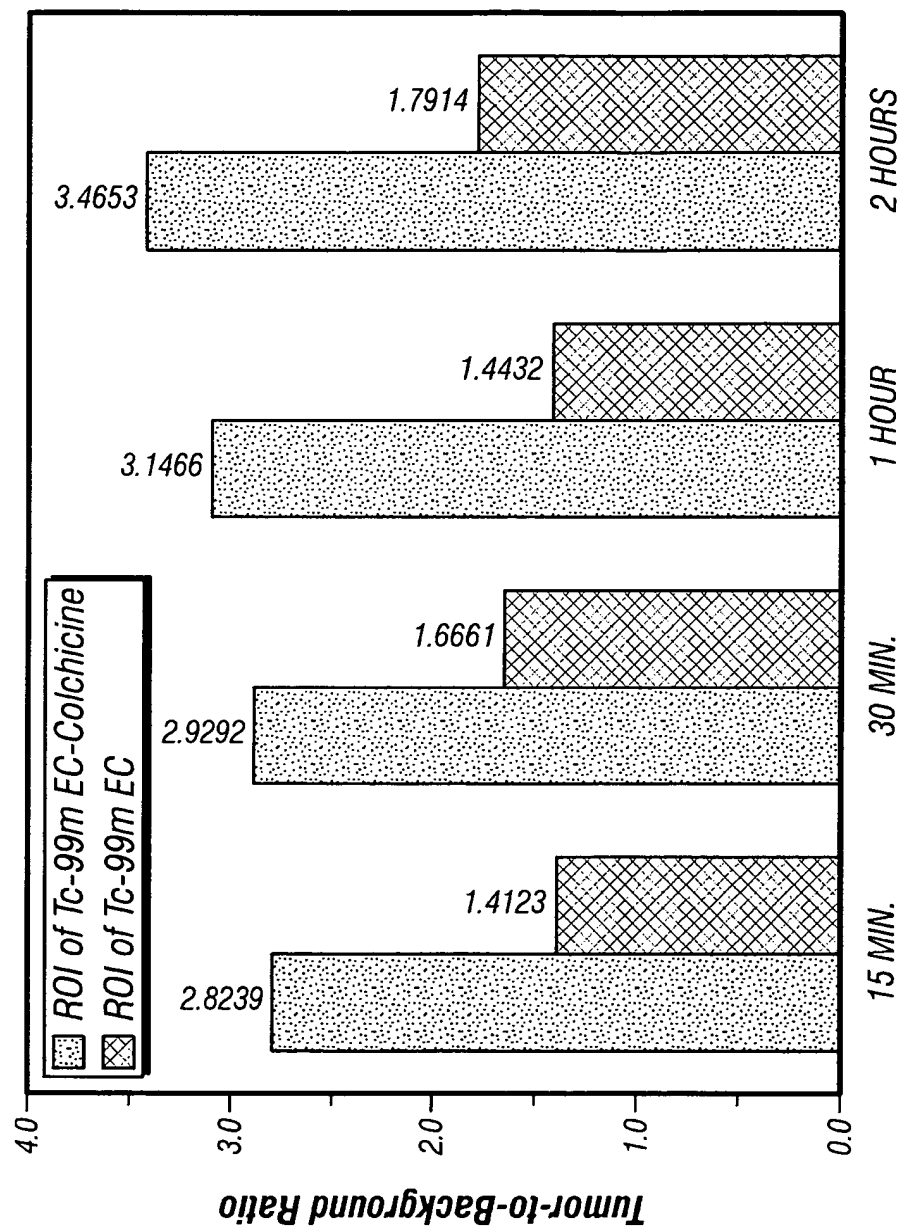
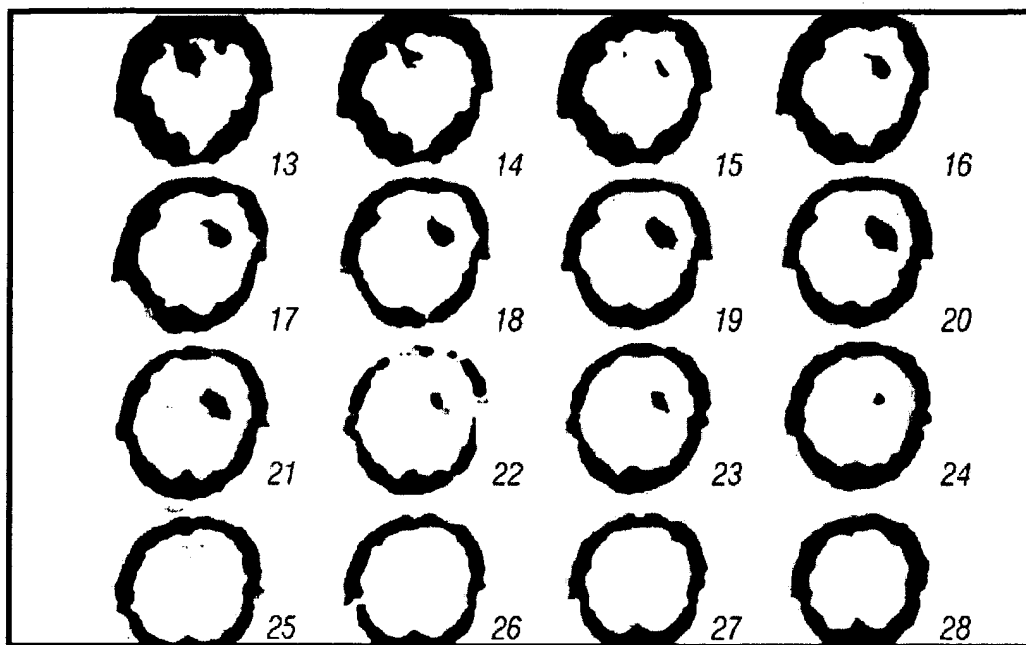


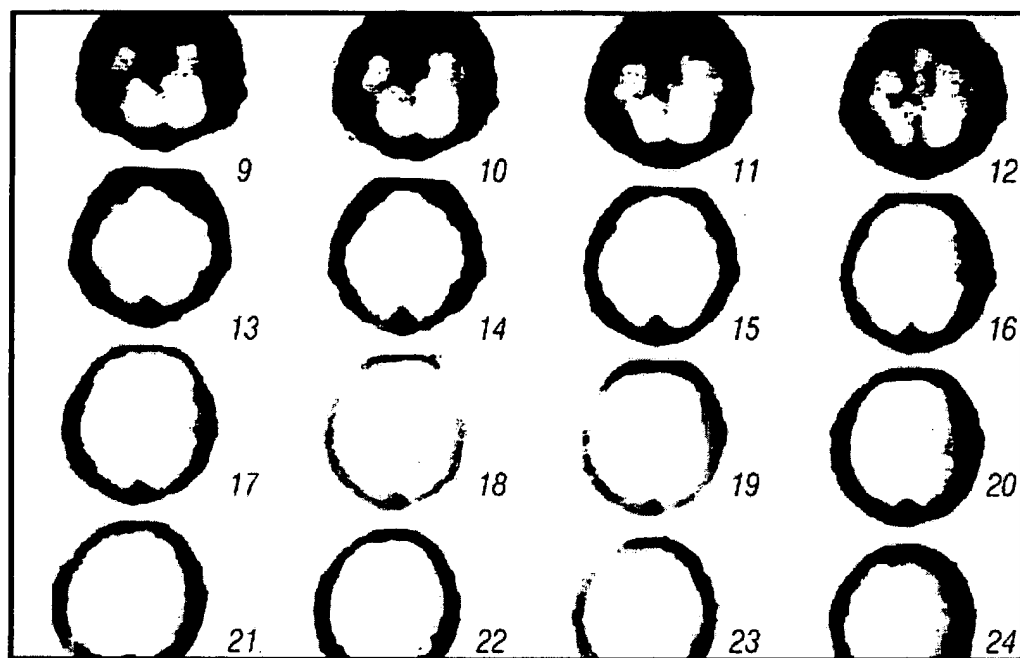
FIG. 27



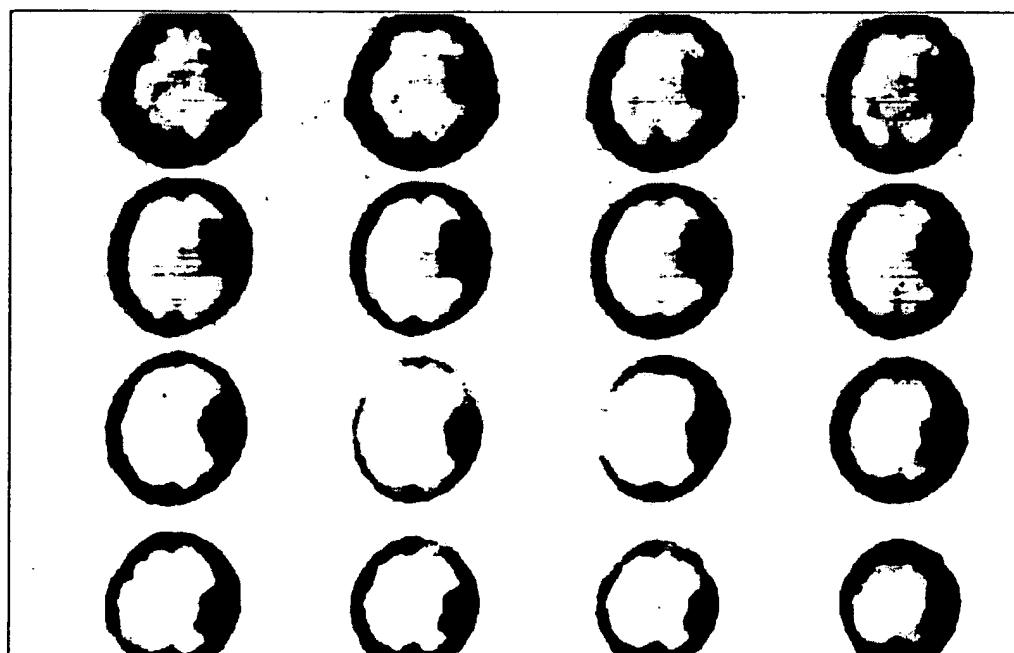
**FIG. 28**



**FIG. 29**



**FIG. 30**



**FIG. 31**

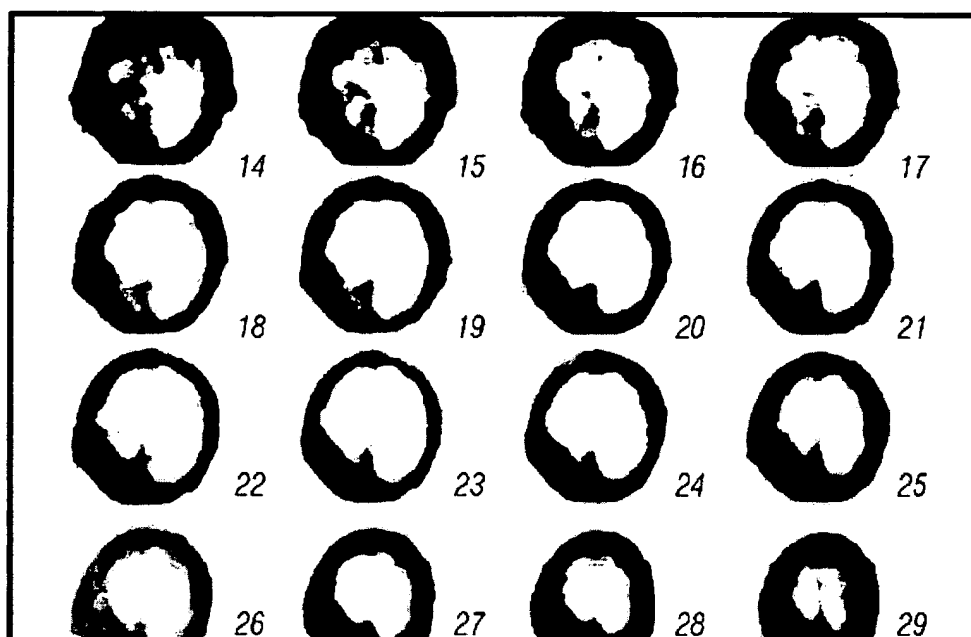




FIG. 32



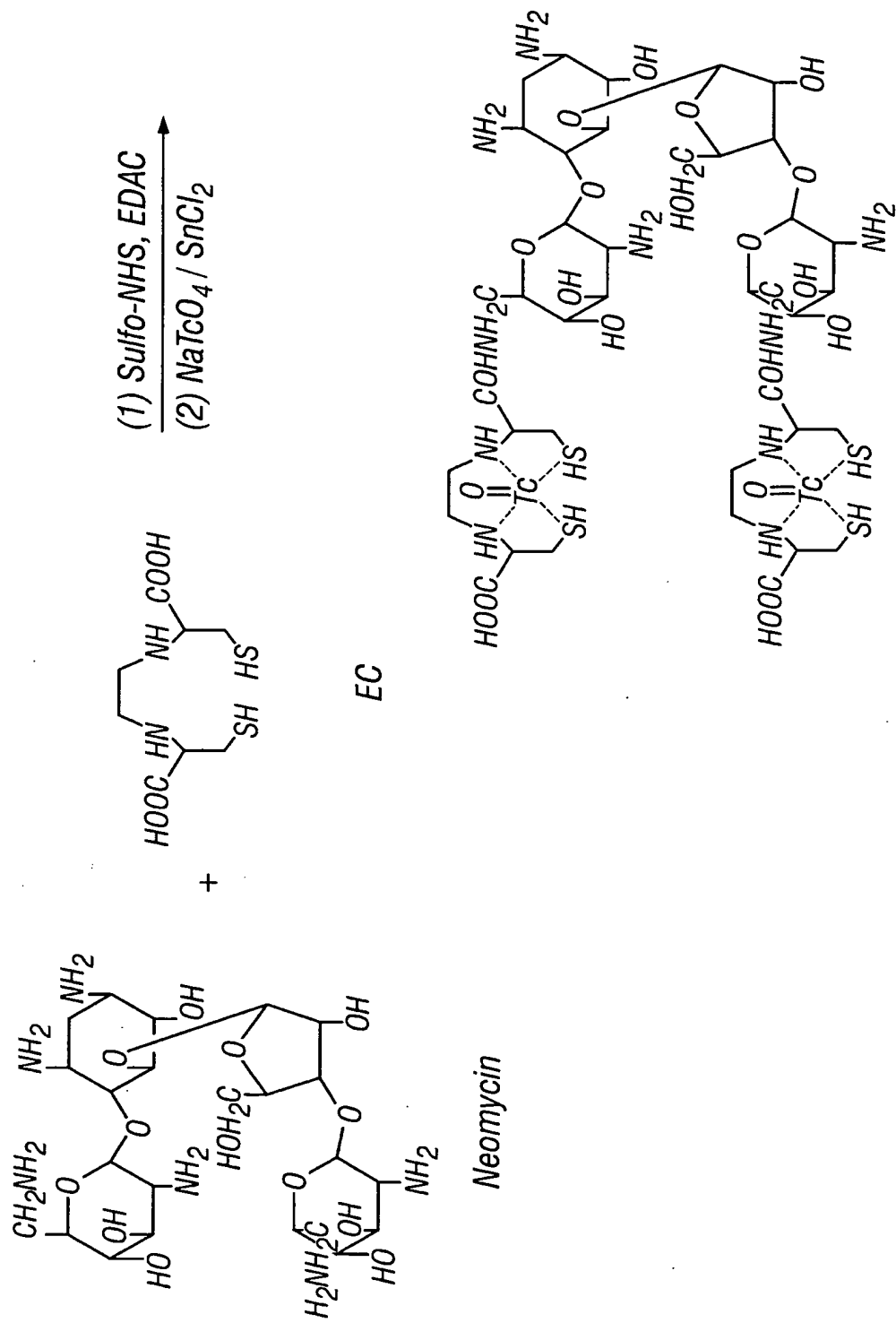
FIG. 33



**FIG. 34**

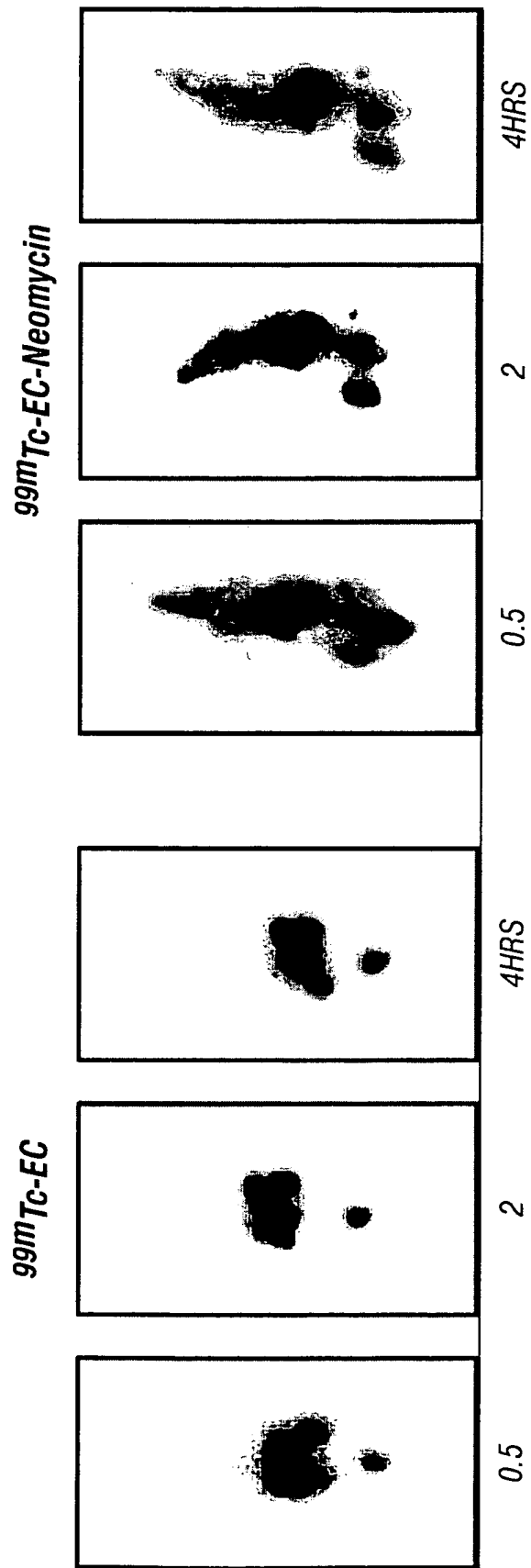


**FIG. 35**

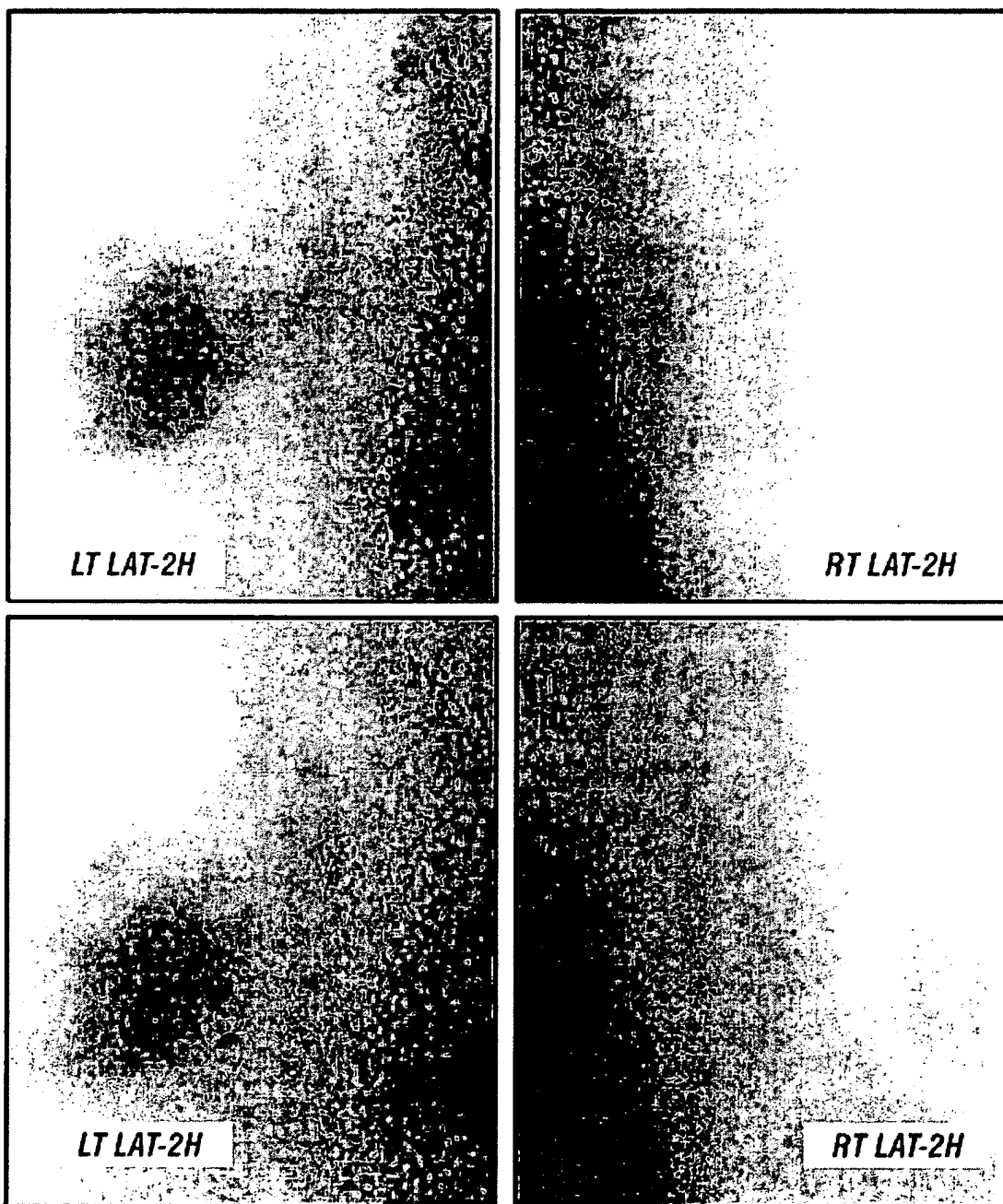


$^{99m}\text{Tc-EC-Neomycin}$

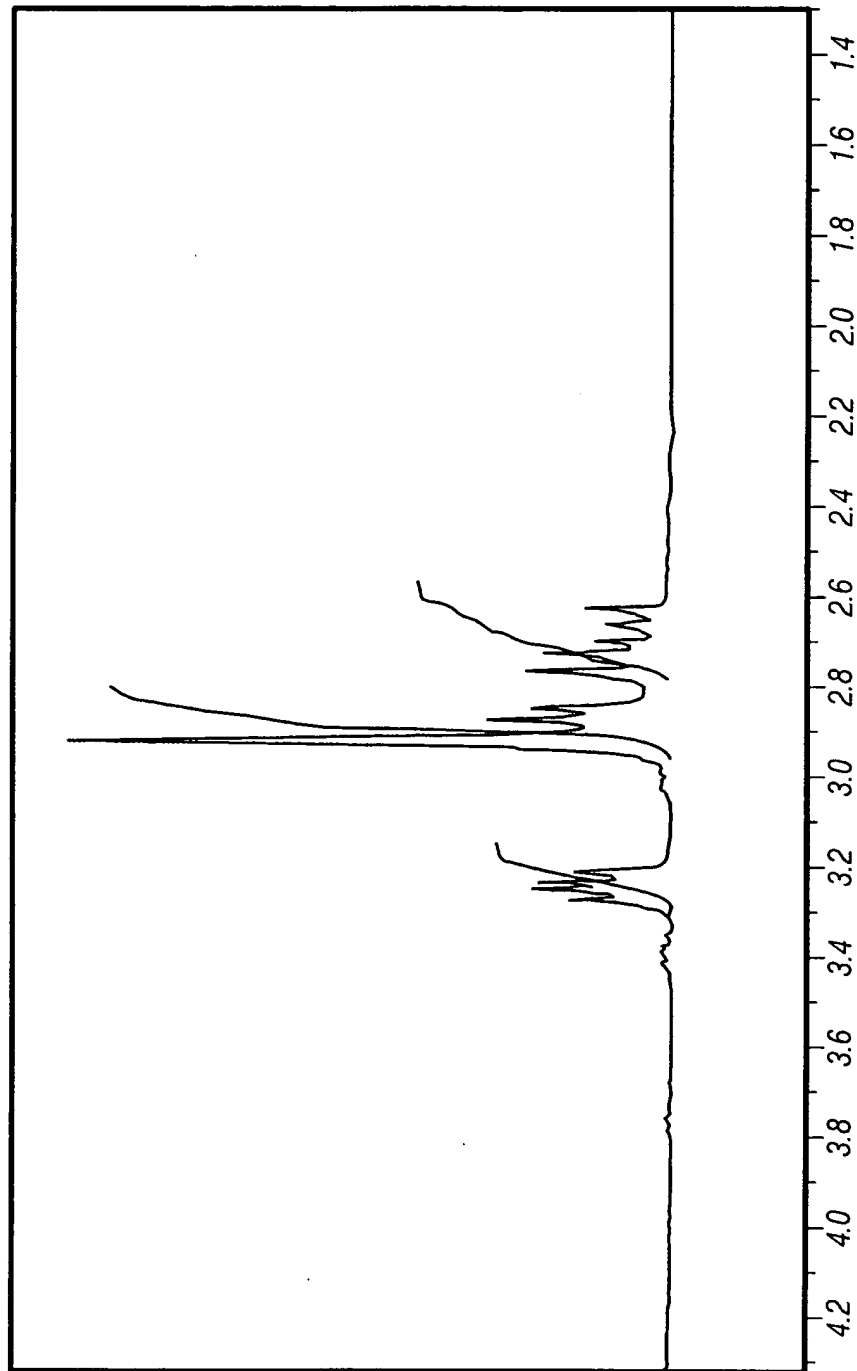
FIG. 36



**FIG. 37A**

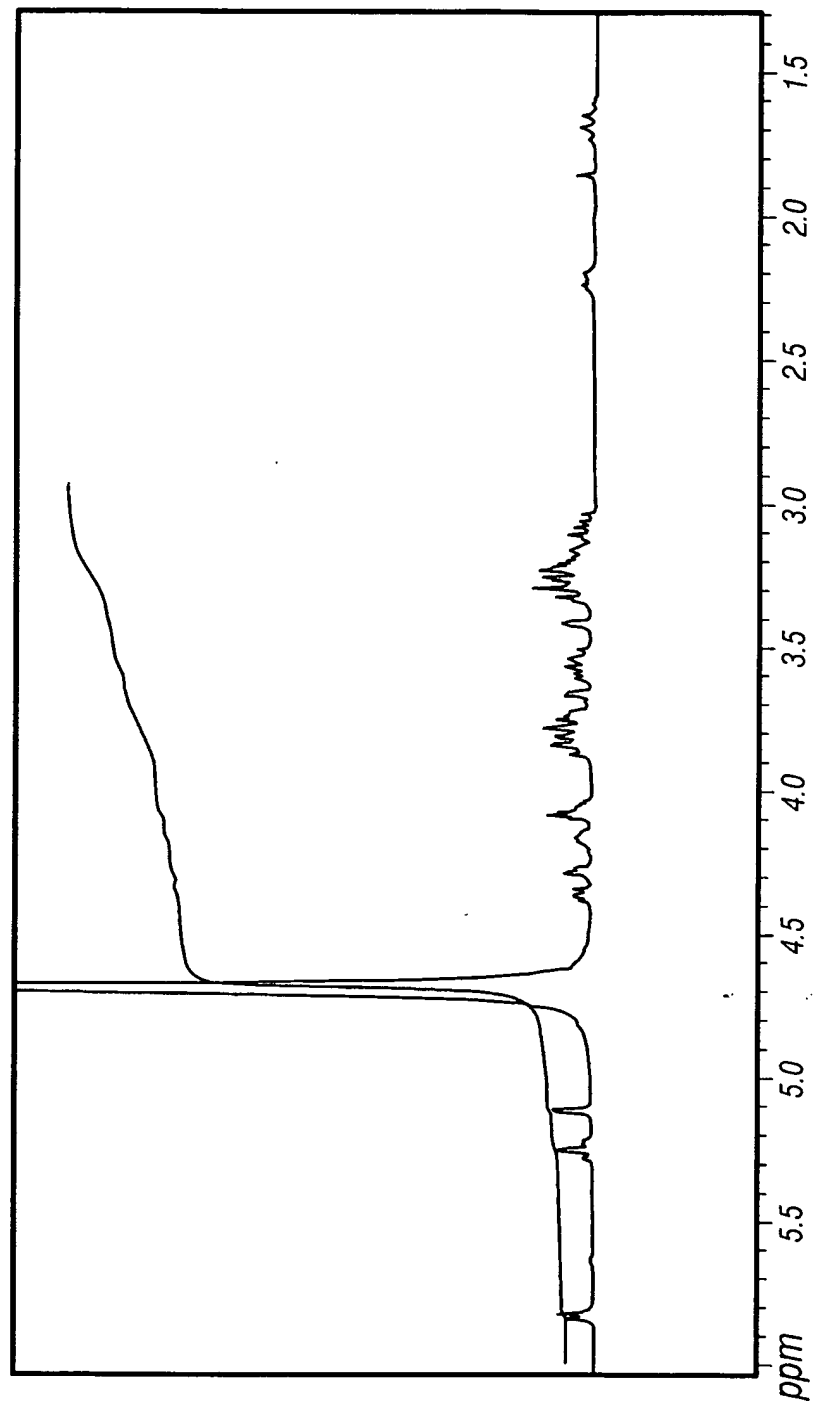


**FIG. 37B**



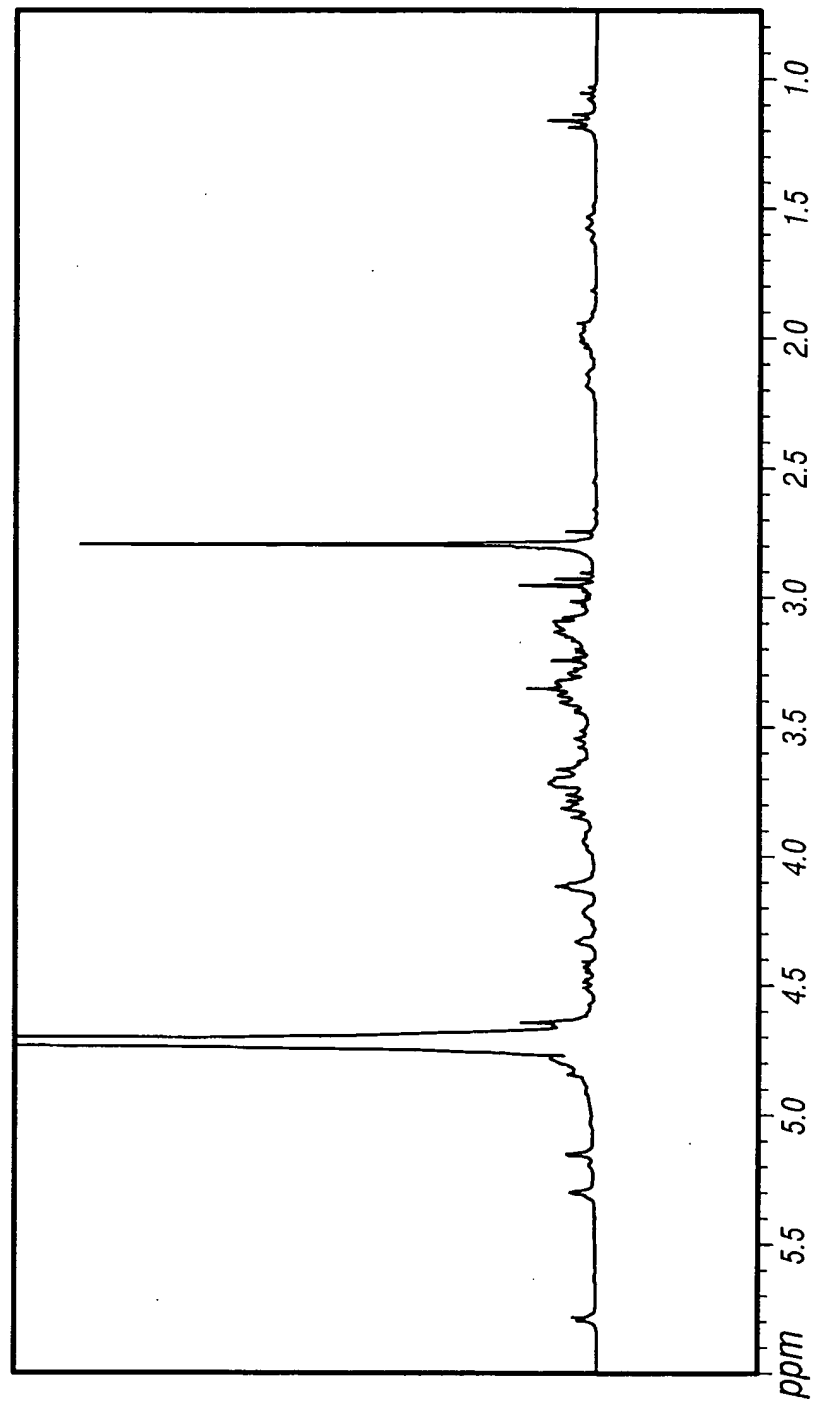
$^1\text{H}$ -NMR of EC.

FIG. 38A



$^1\text{H}$ -NMR of neomycin

FIG. 38B



$^1\text{H}$ -NMR of EC-neomycin

FIG. 38C



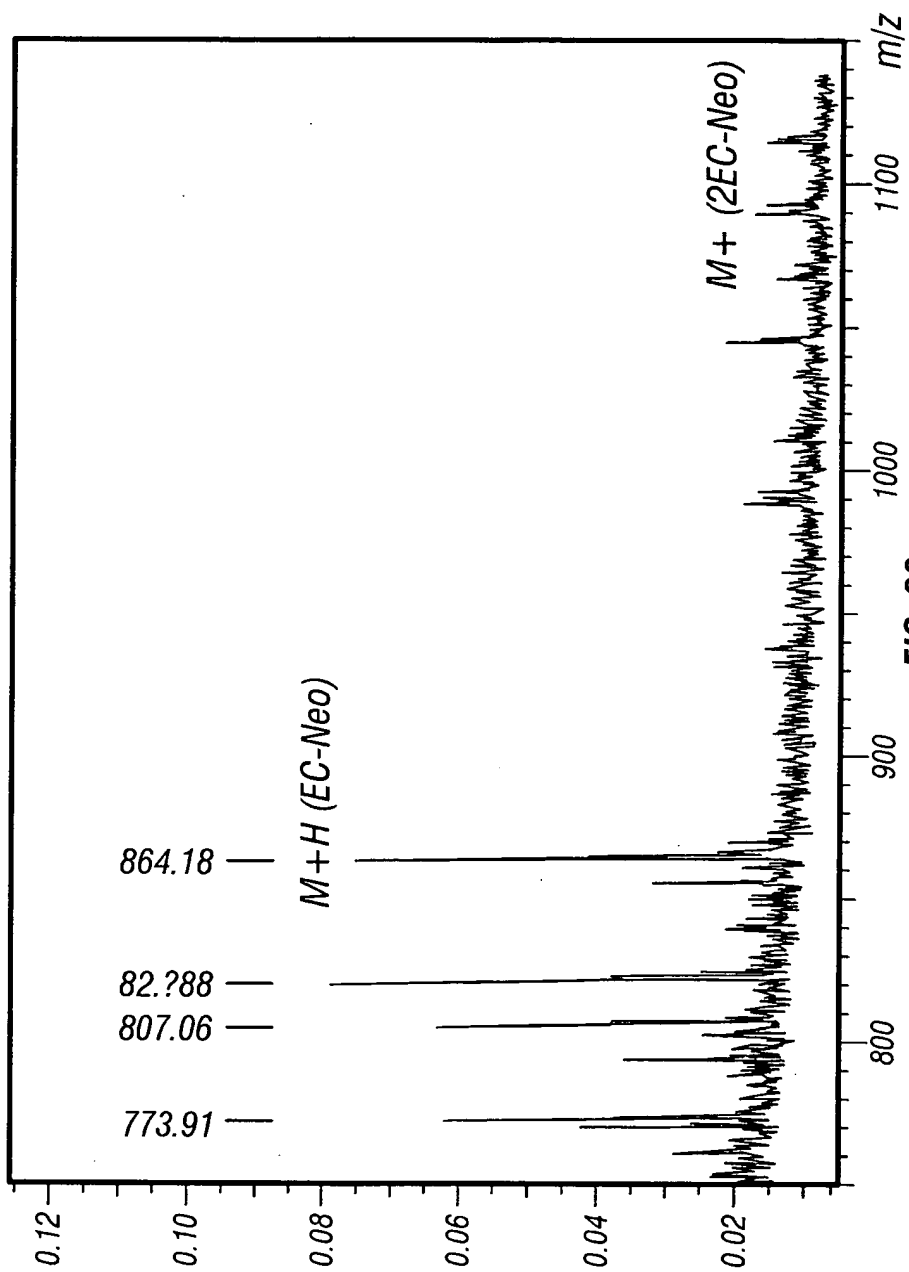
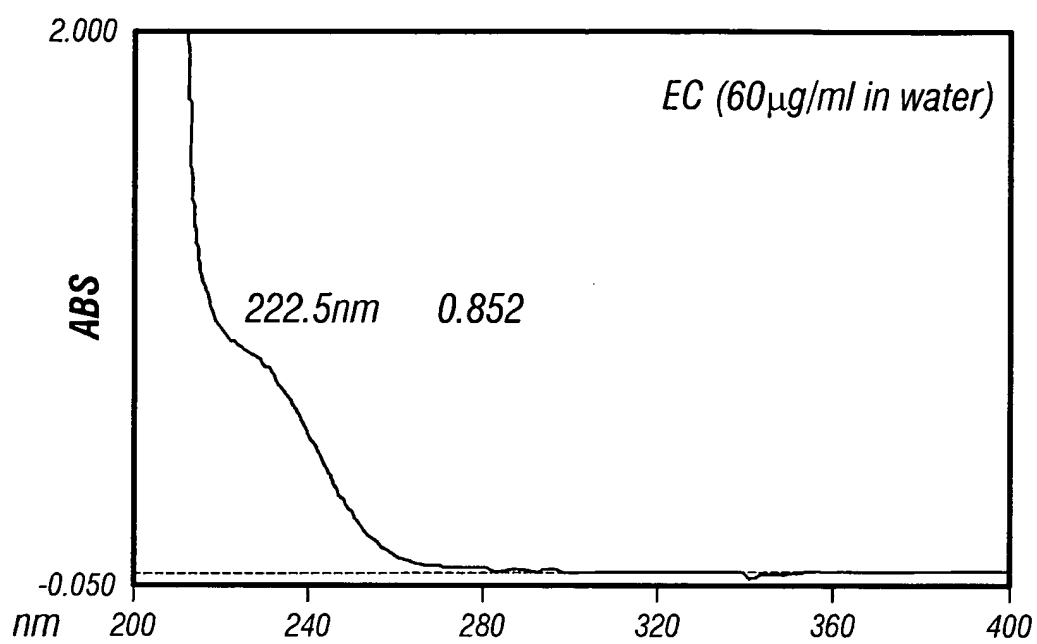
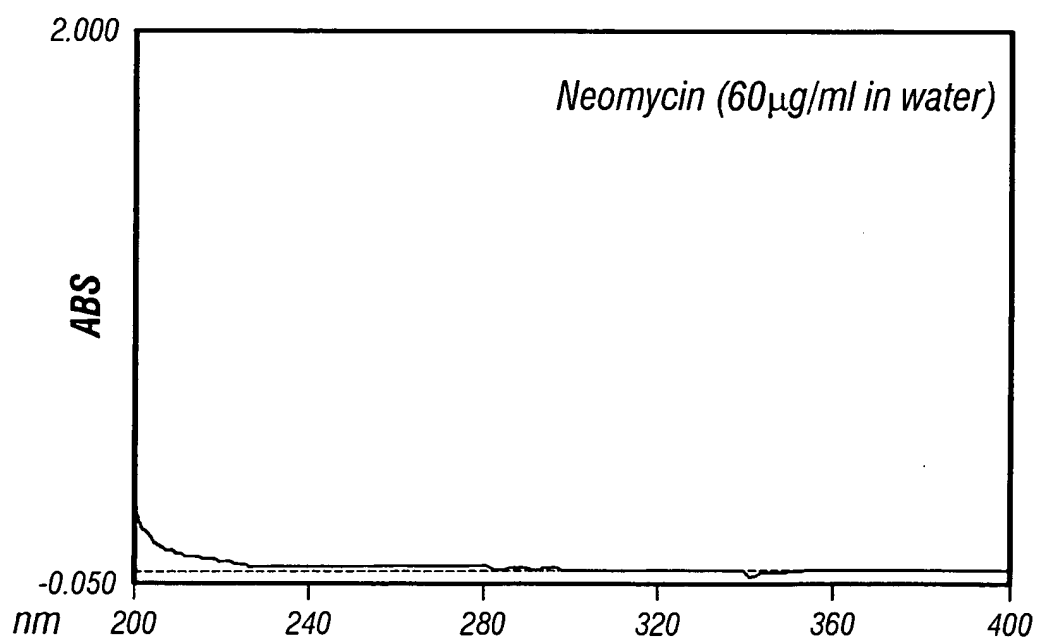


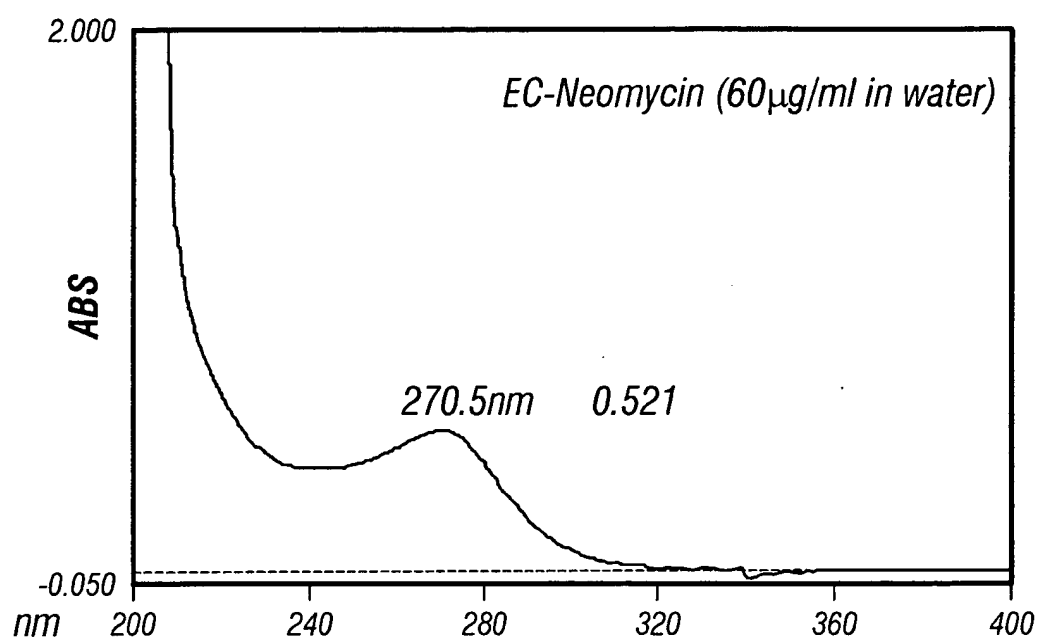
FIG. 39



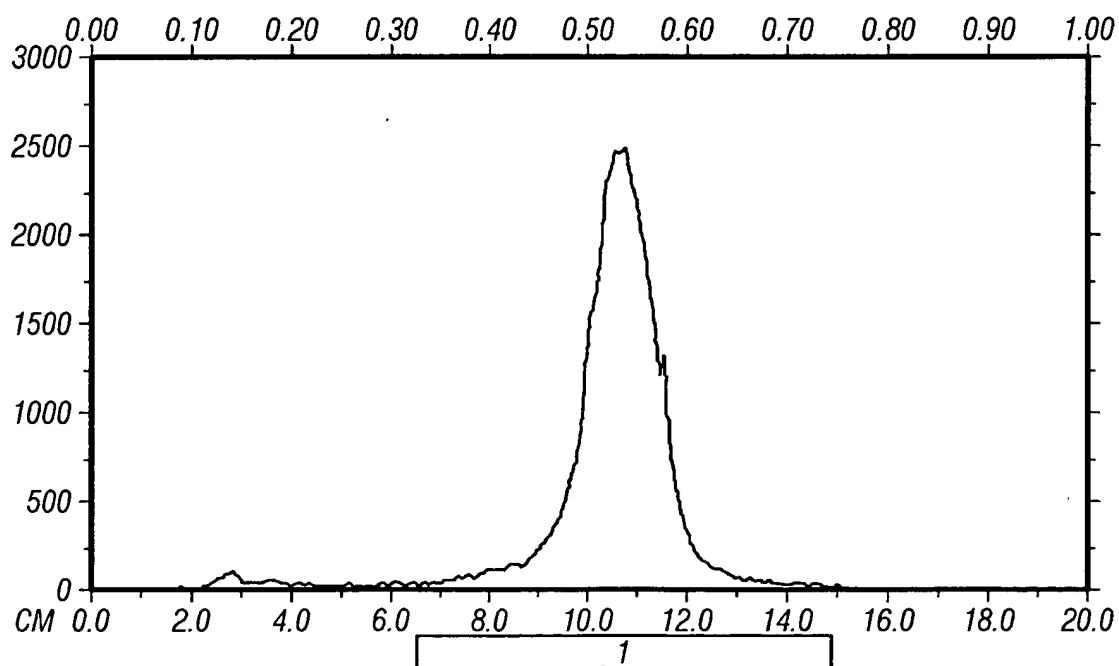
**FIG. 40A**



**FIG. 40B**

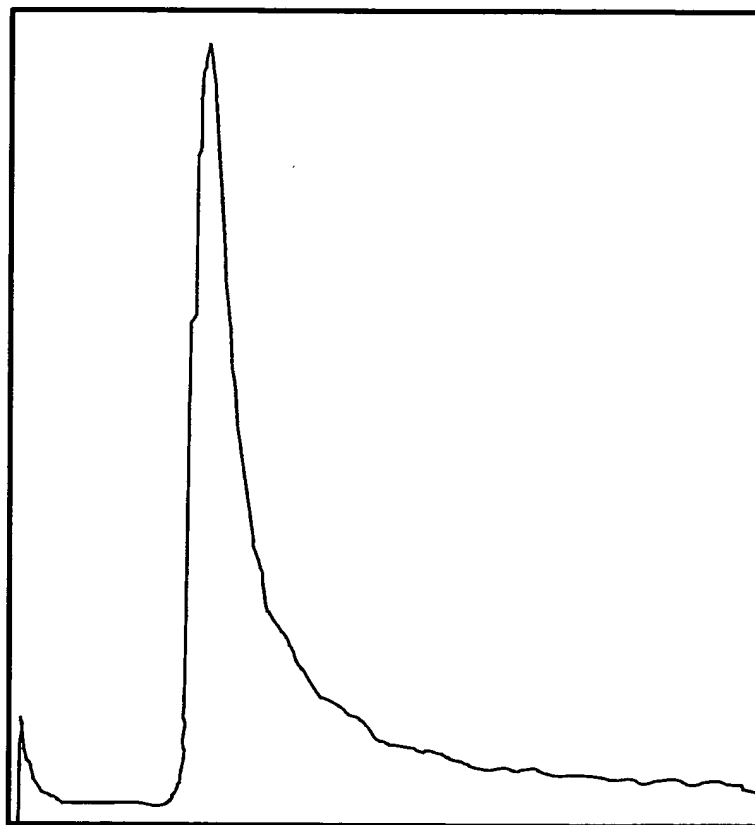


**FIG. 40C**



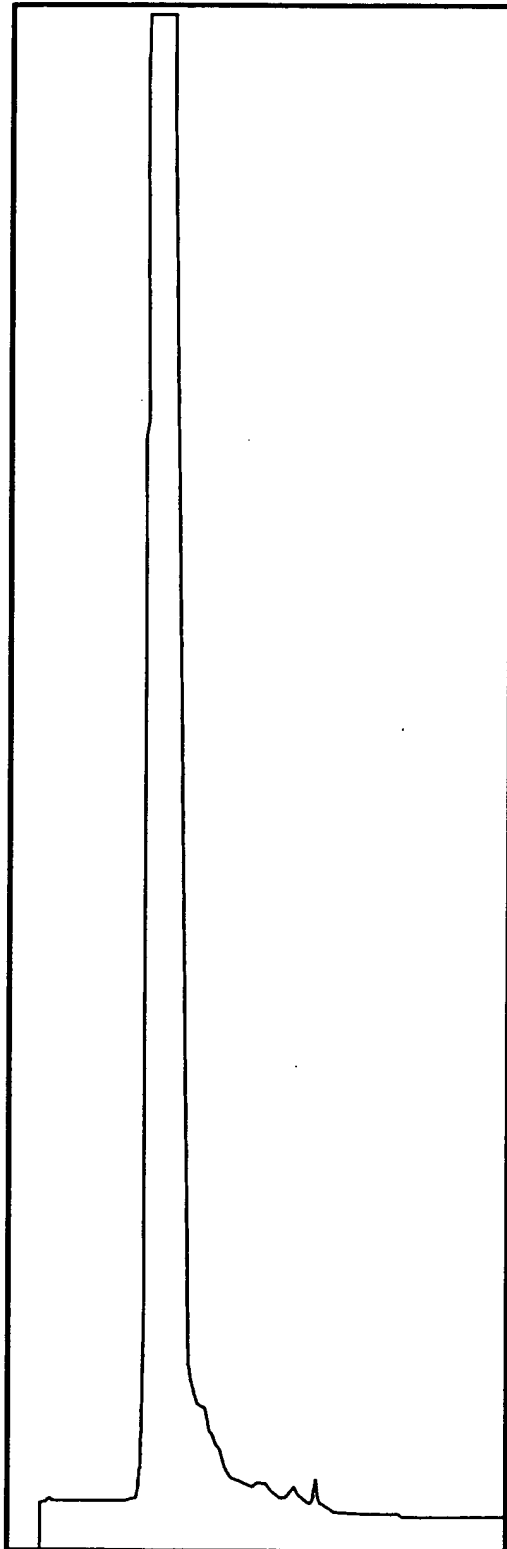
**FIG. 41**

$^{99m}\text{Tc}$ -EC-NEO



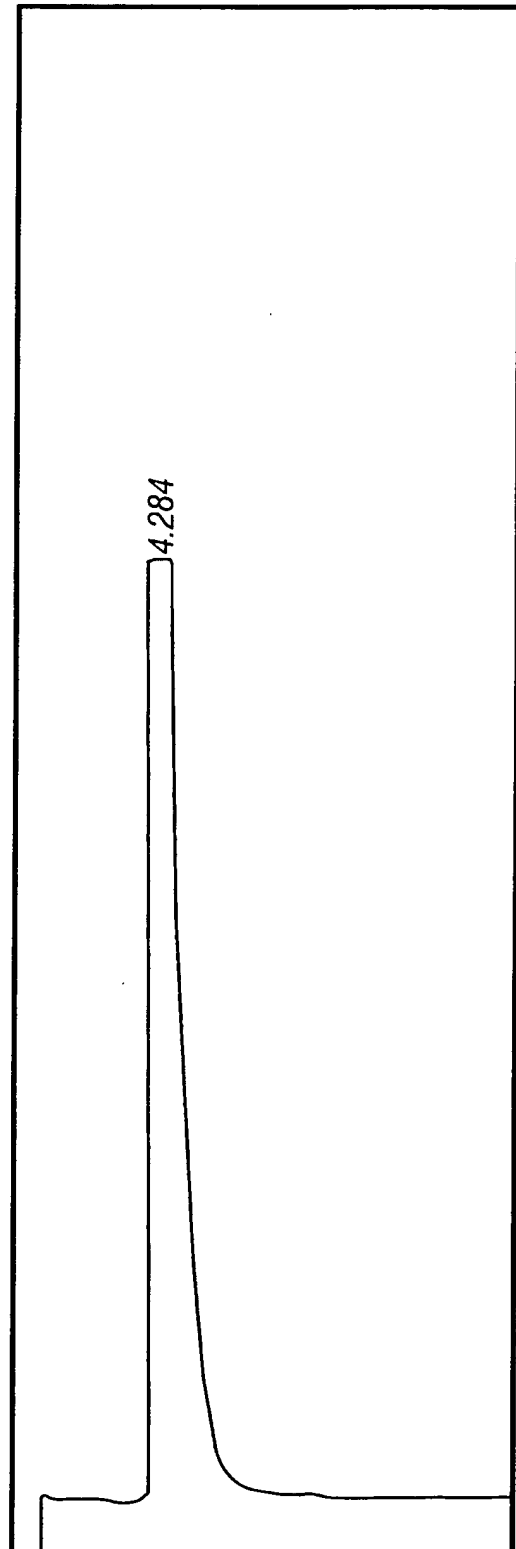
**FIG. 42**

$^{99m}\text{Tc-EC-NEO}$



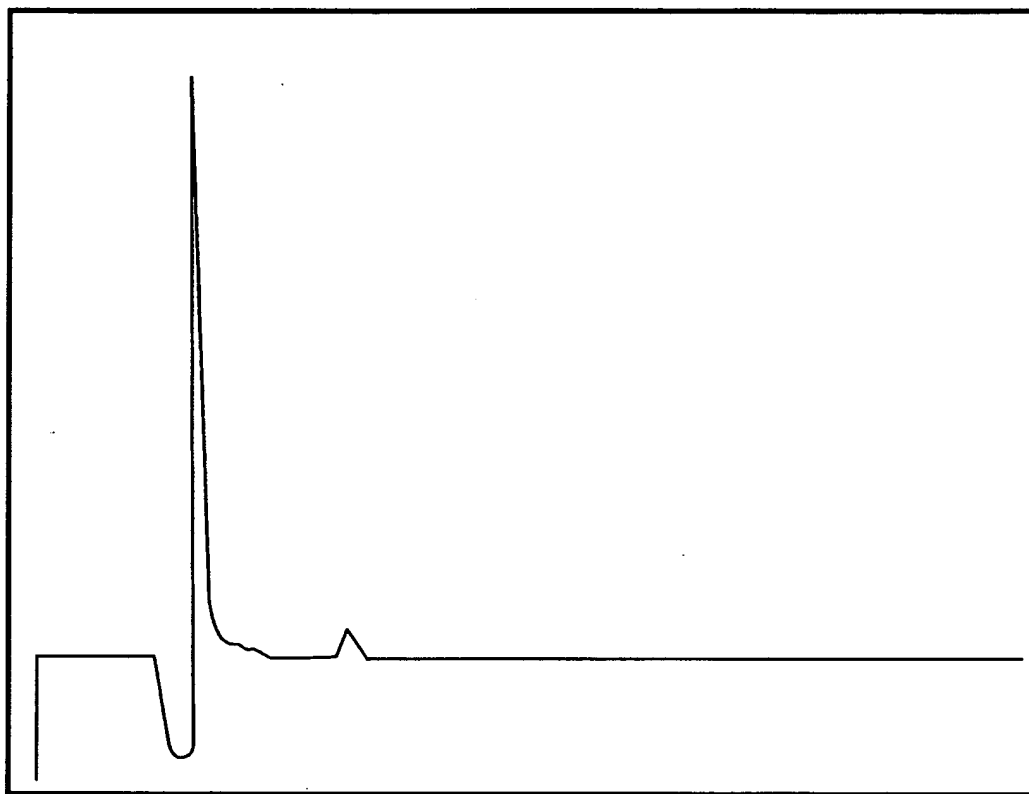
**FIG. 43**

$^{18}\text{F-FDG}$



**FIG. 44**

$^{18}\text{F}$ -FDG



**FIG. 45**

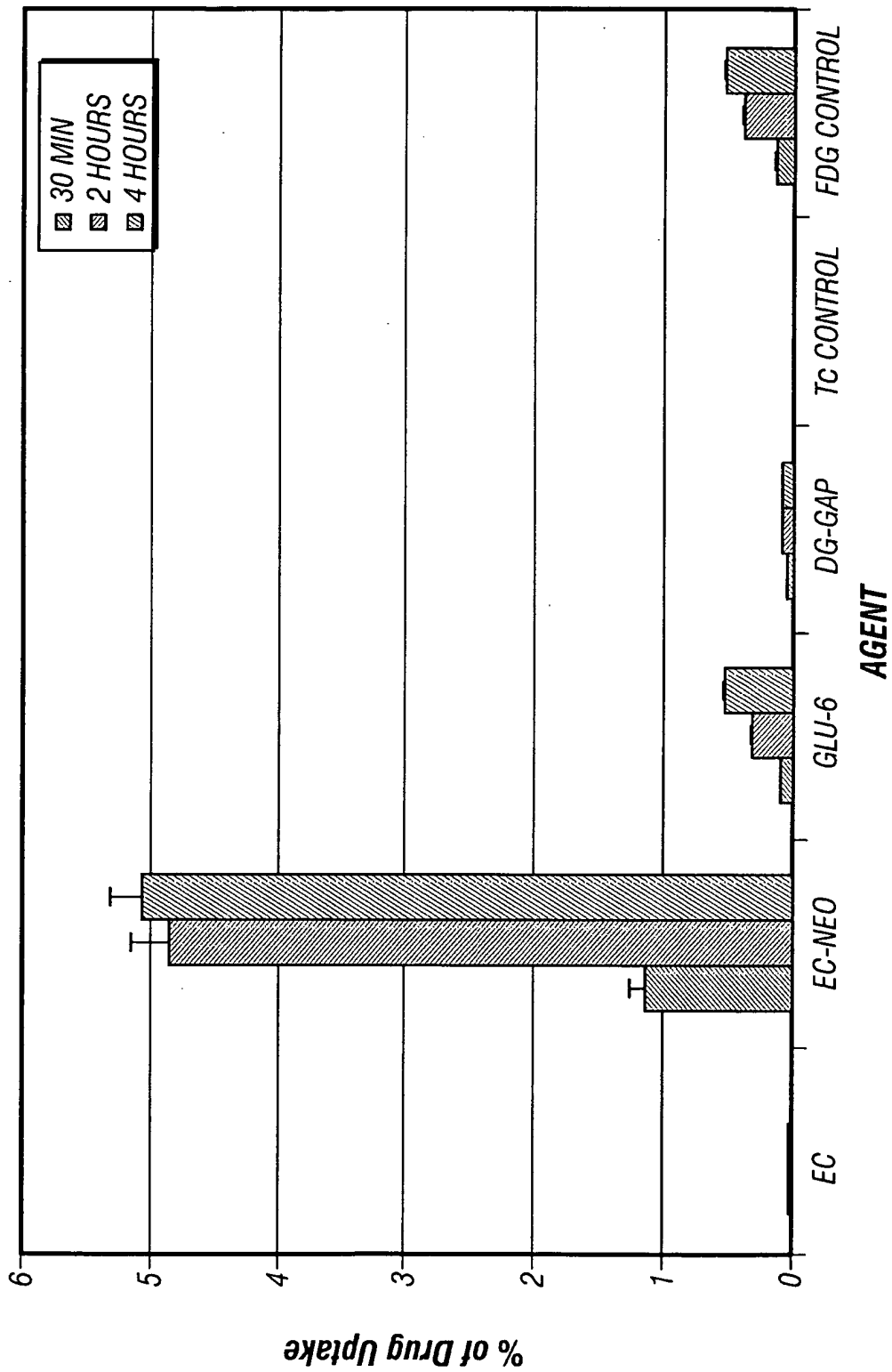


FIG. 46

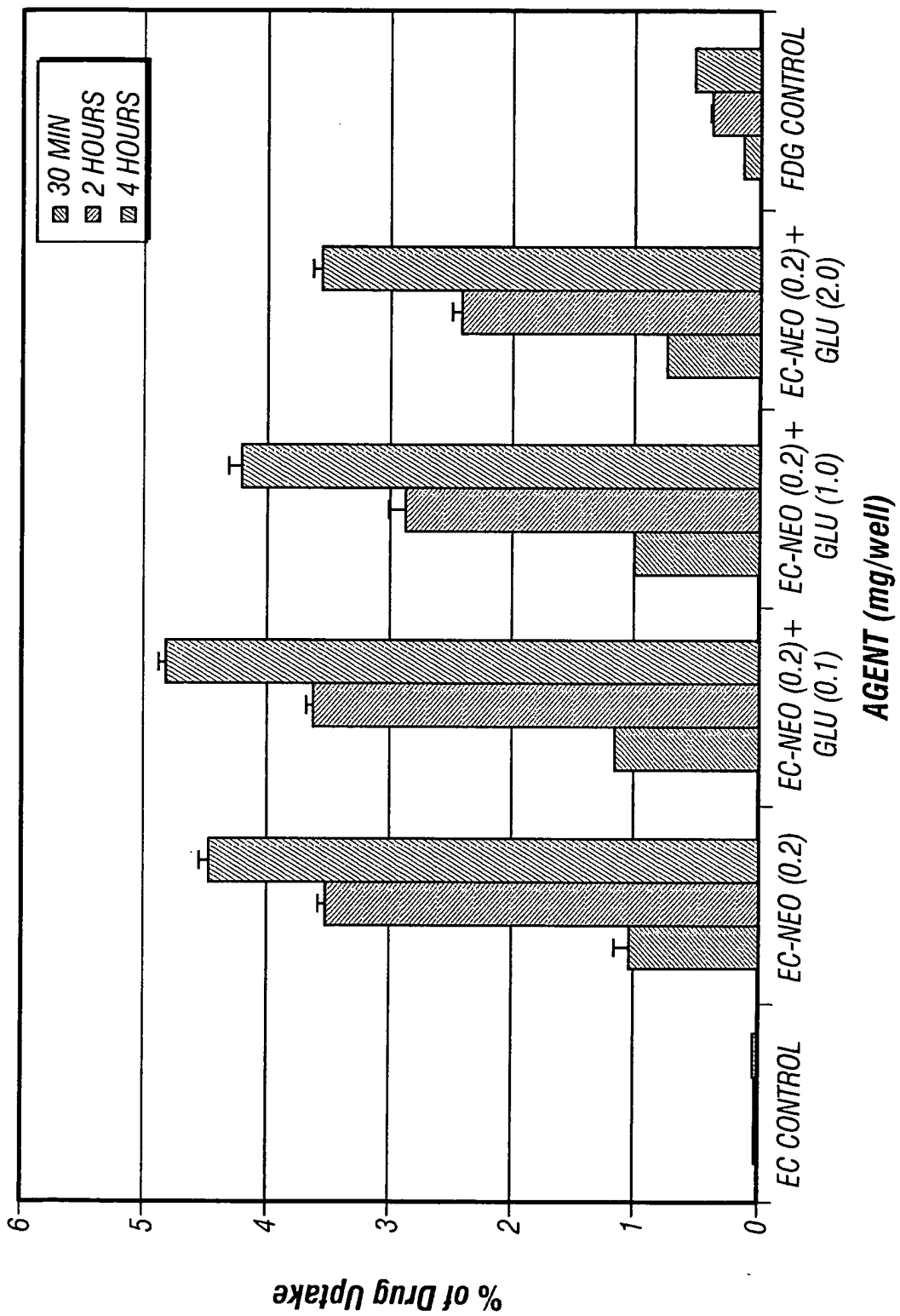
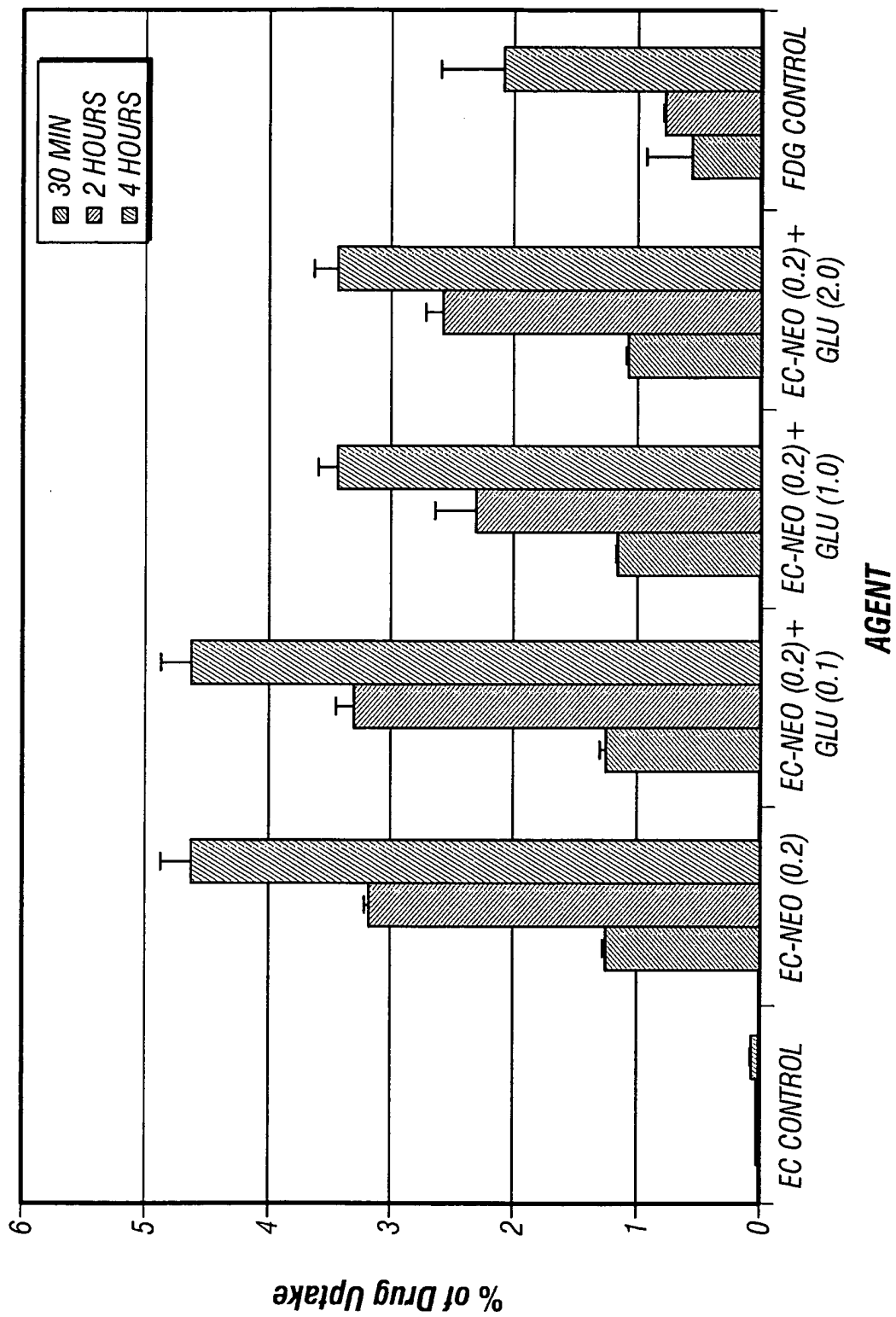
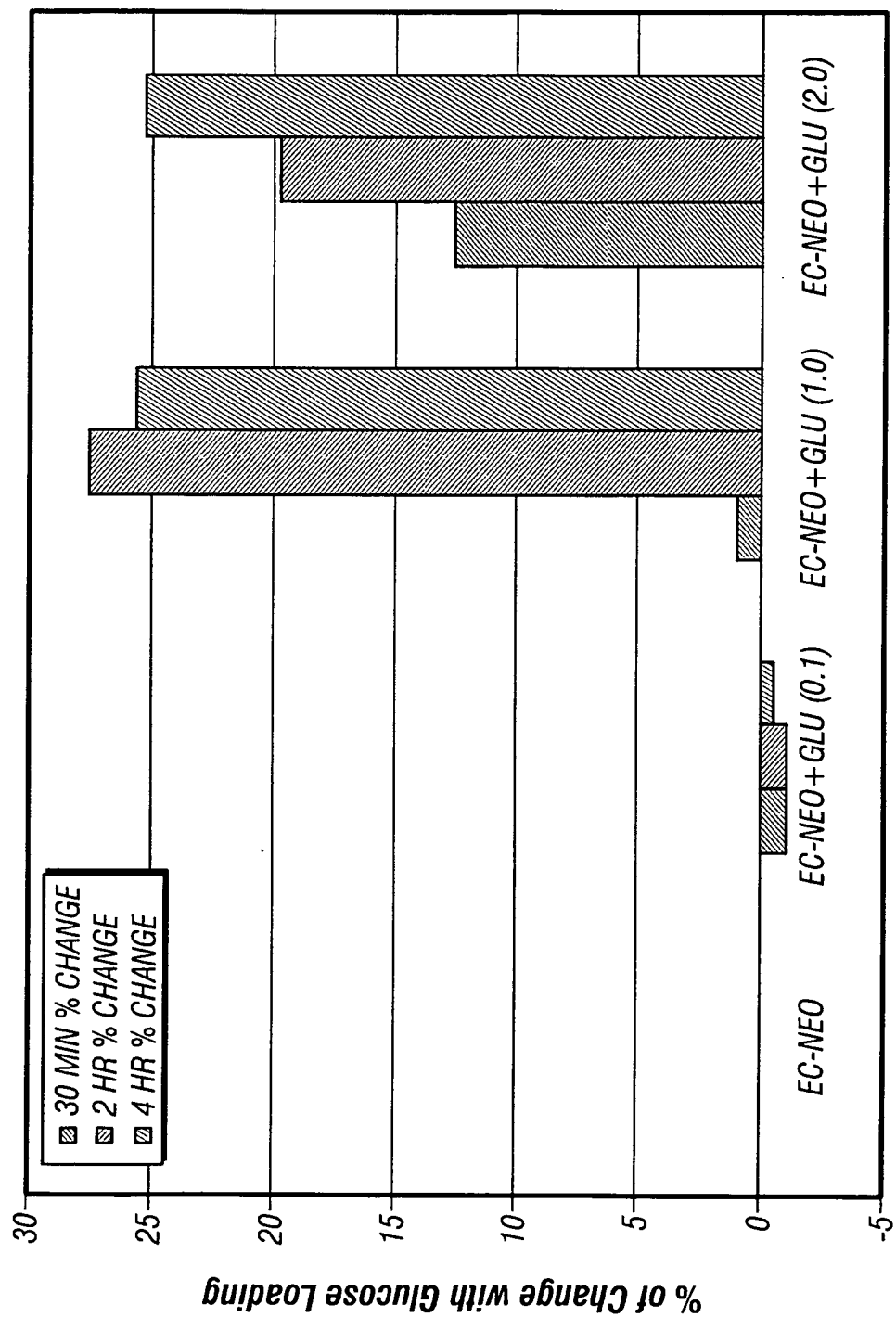


FIG. 47





**FIG. 48A**



**AGENT (dose)**  
**FIG. 48B**

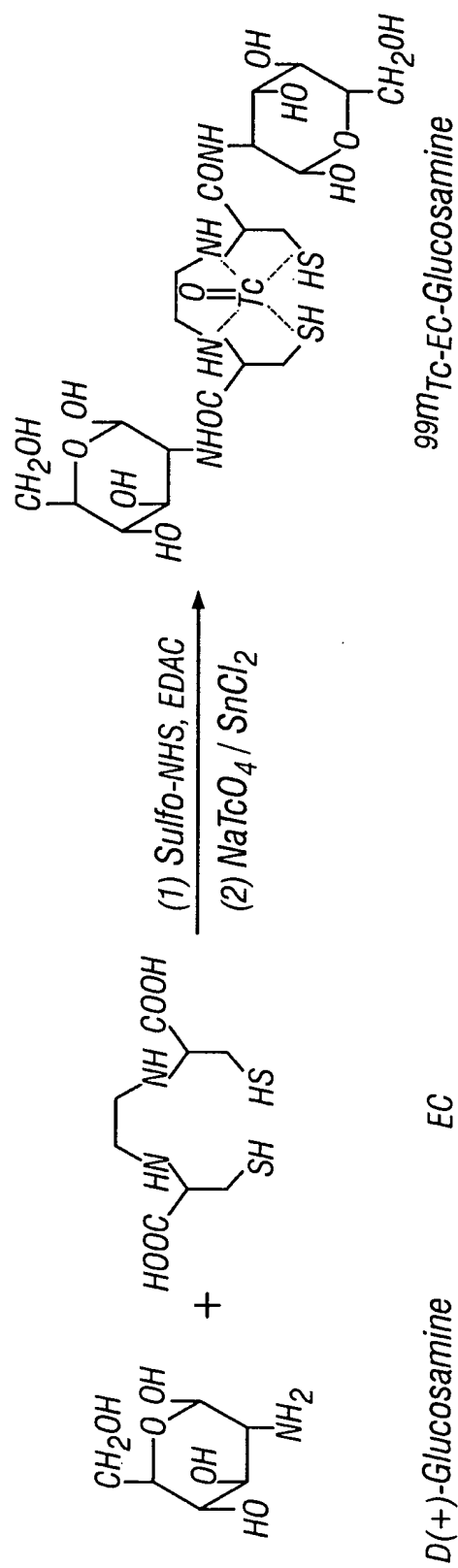


FIG. 49

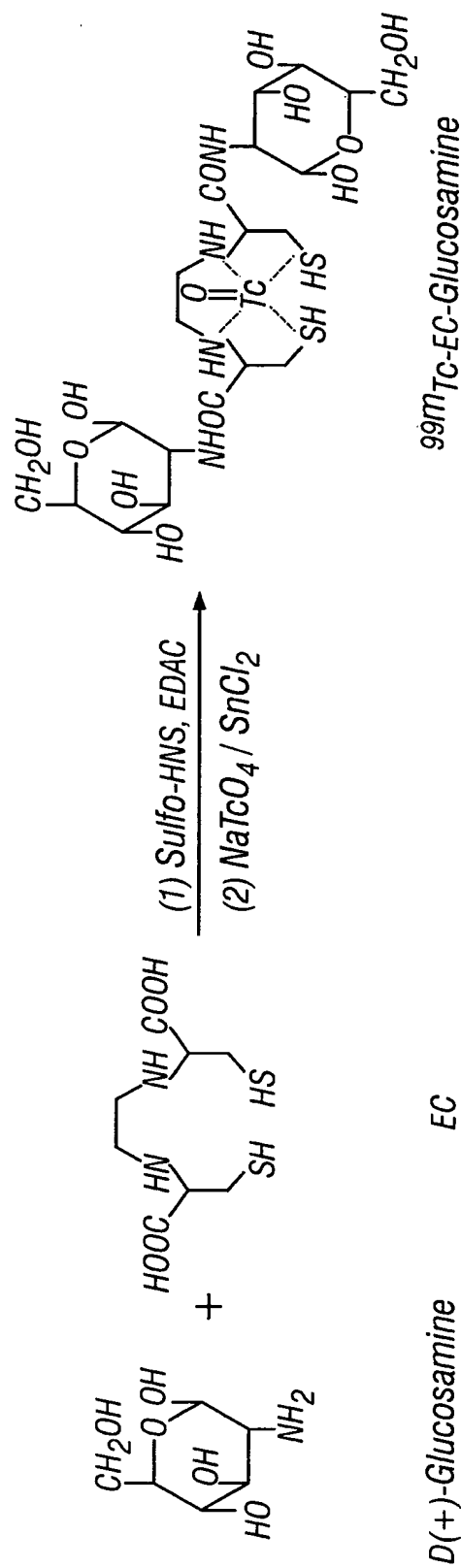
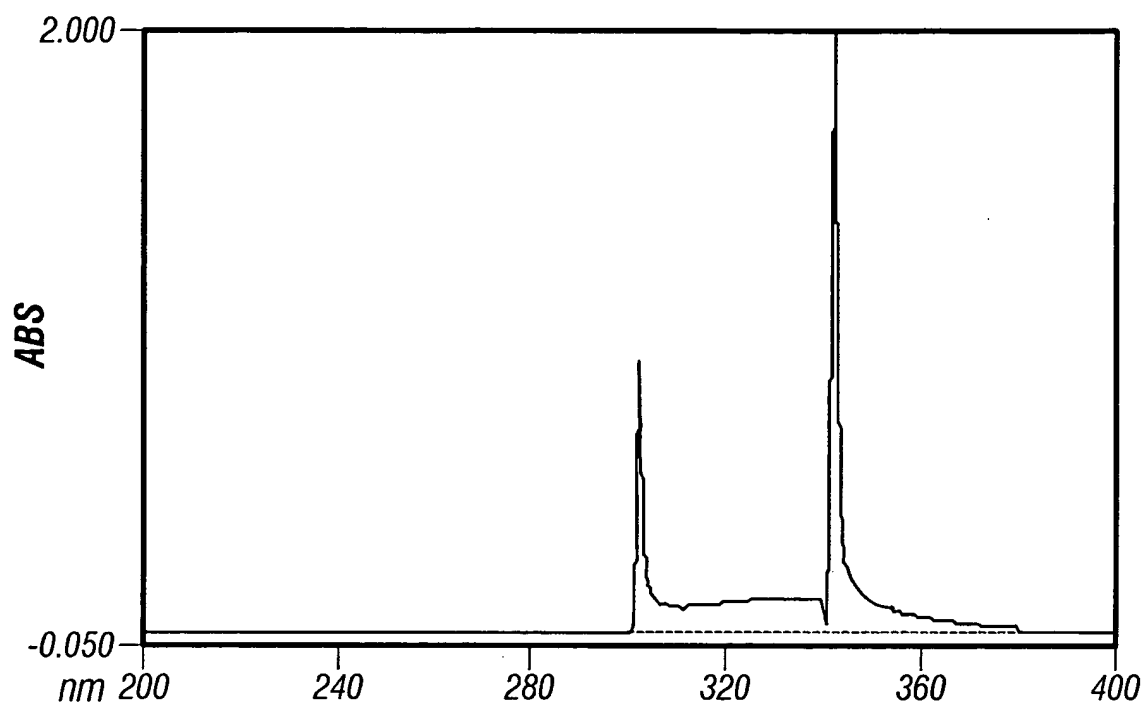
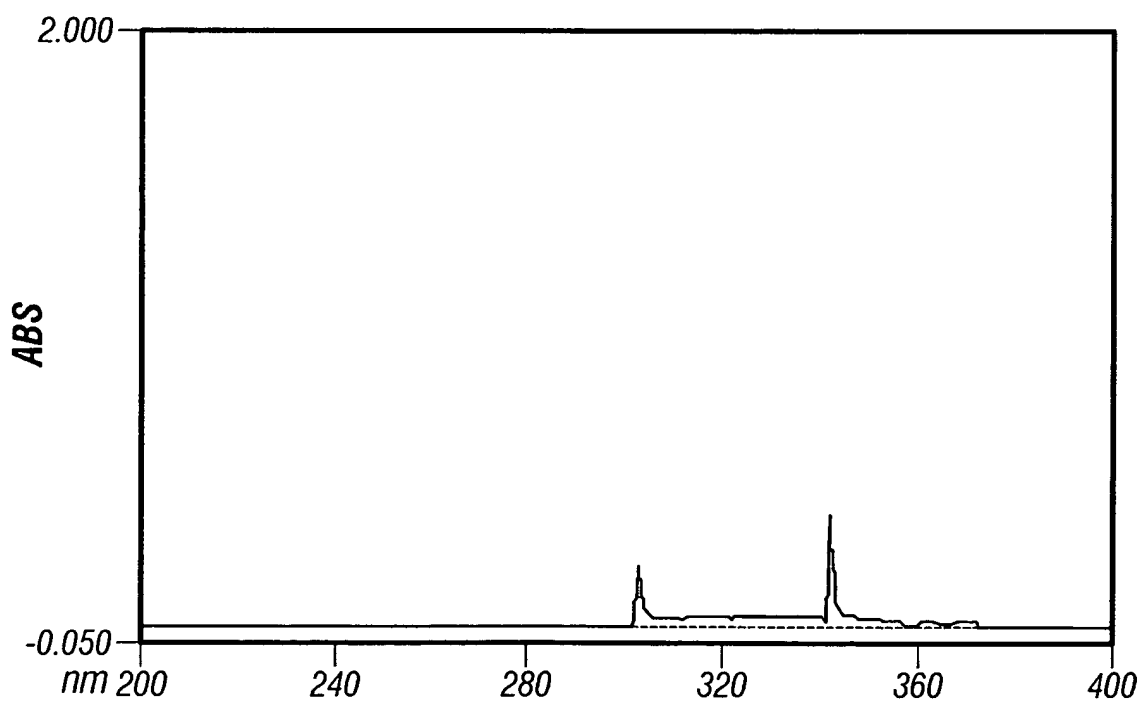


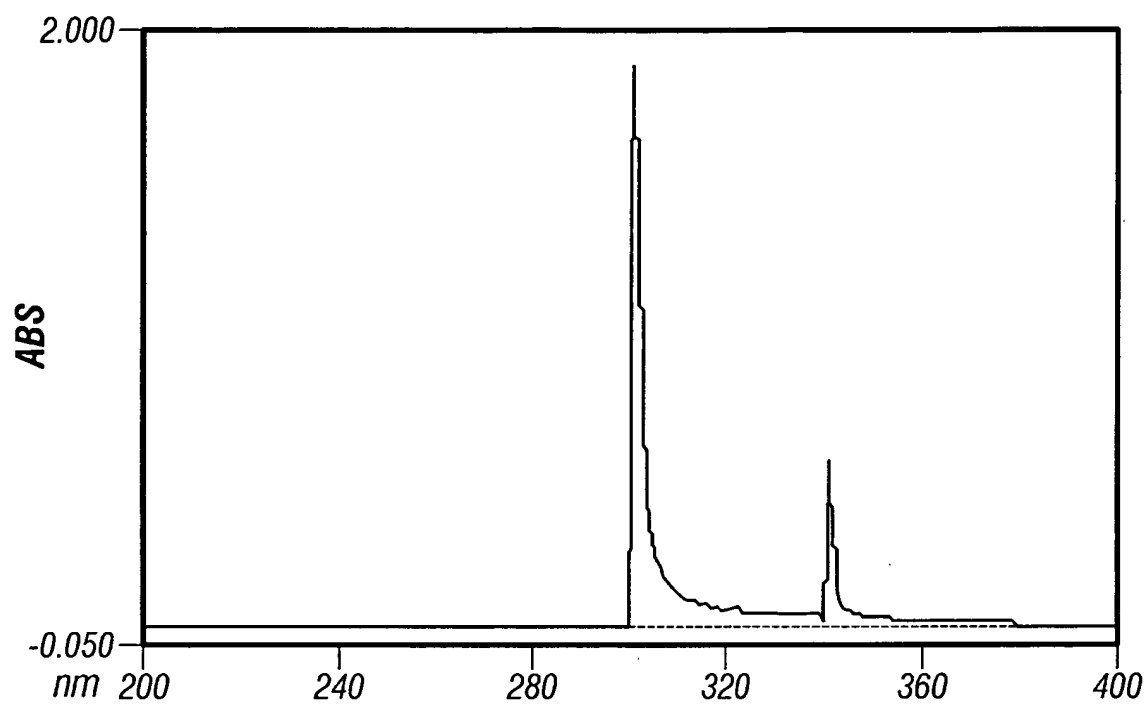
FIG. 59



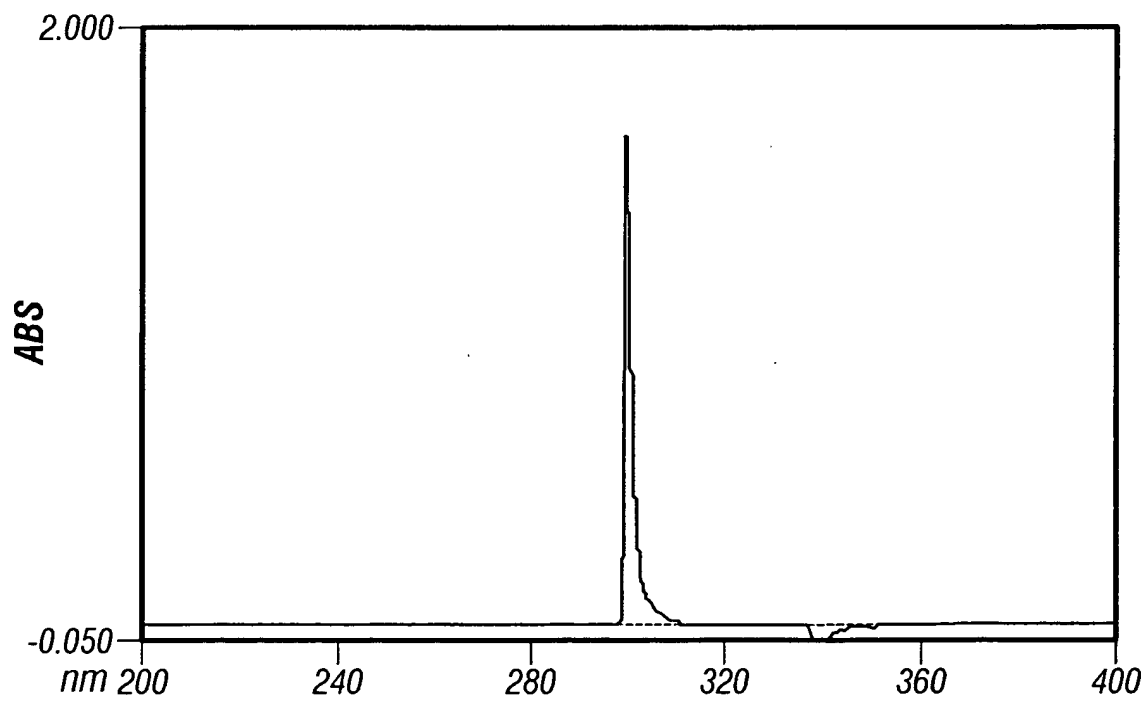
**FIG. 50**



**FIG. 51**

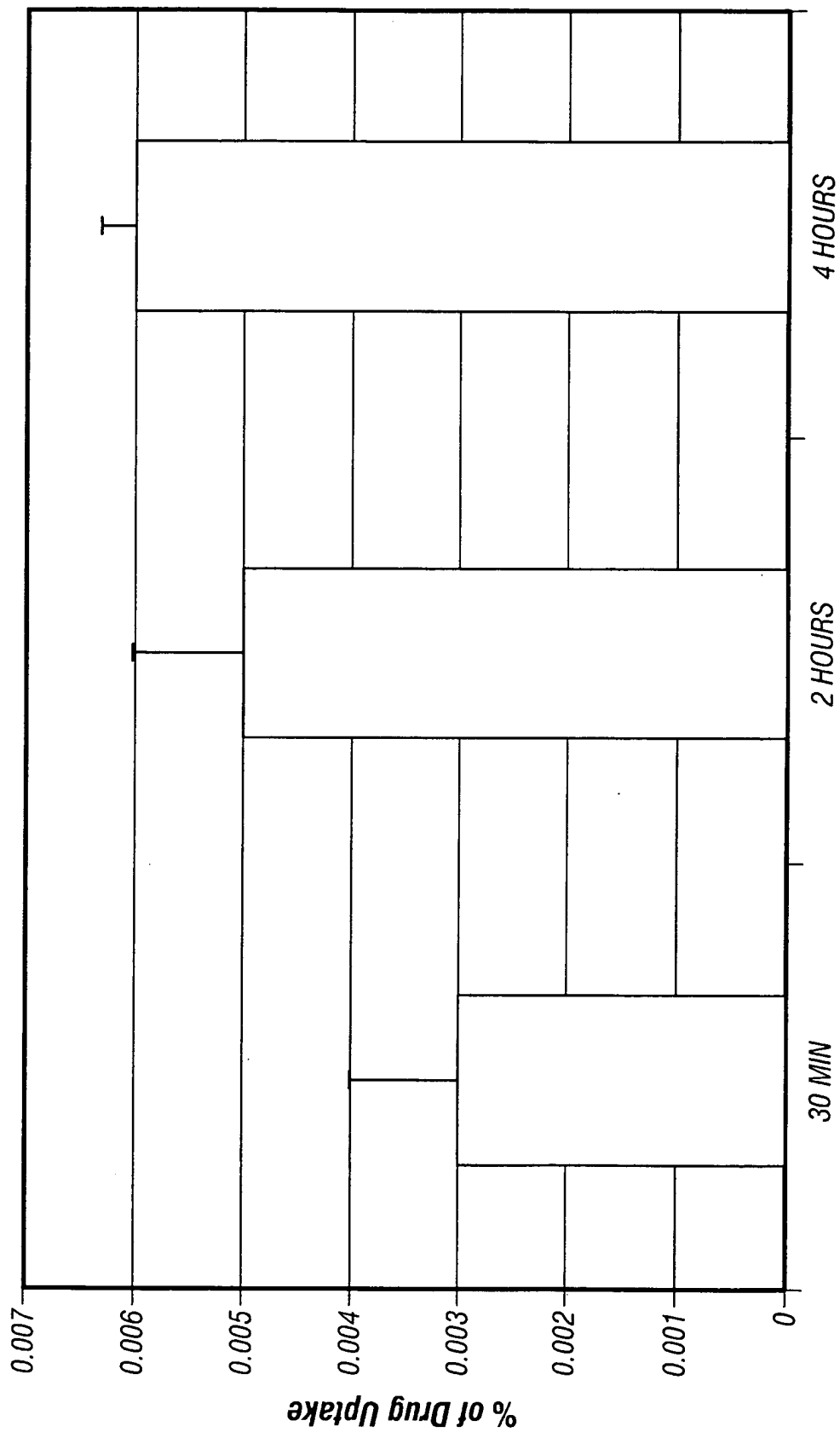


**FIG. 52**

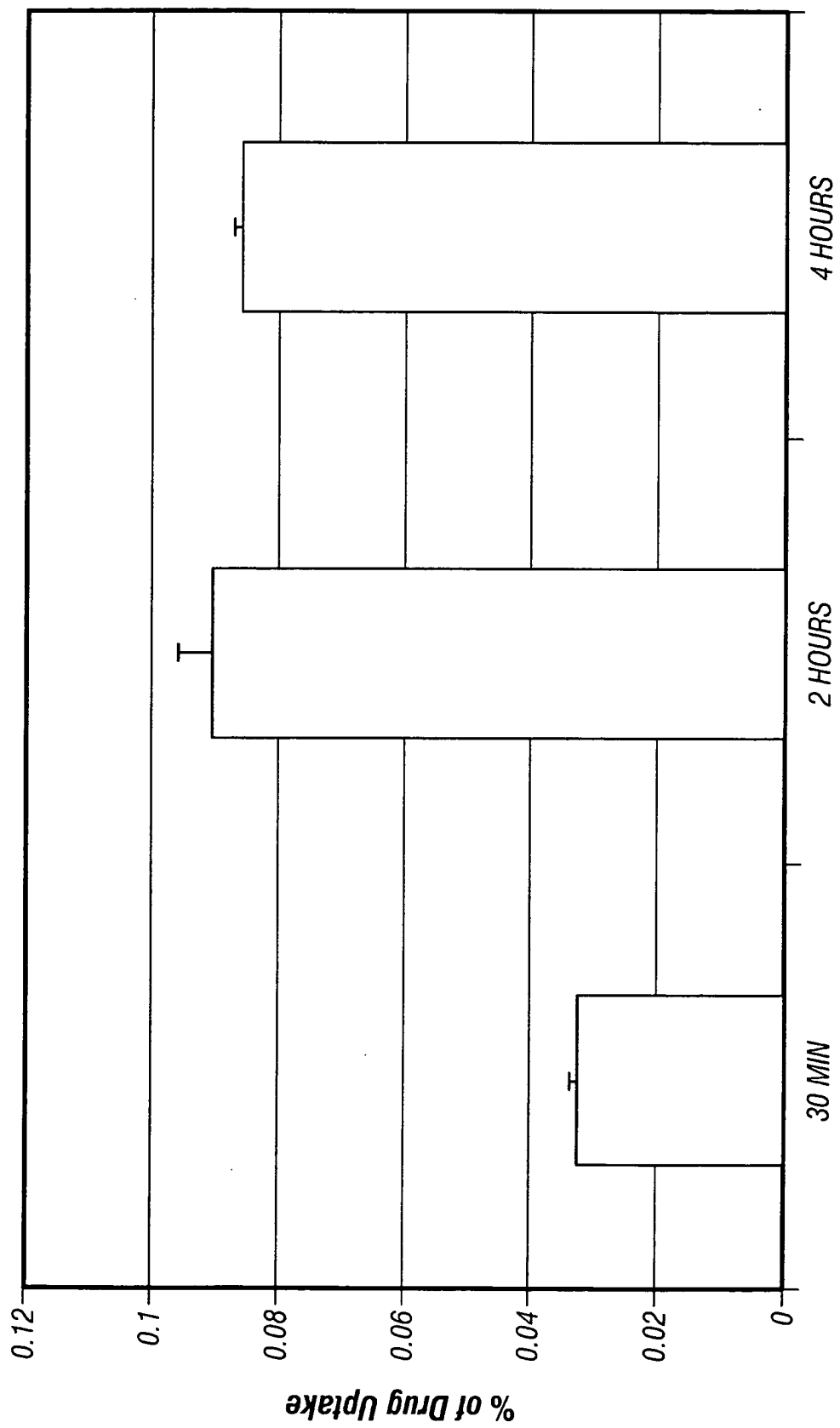


**FIG. 53**



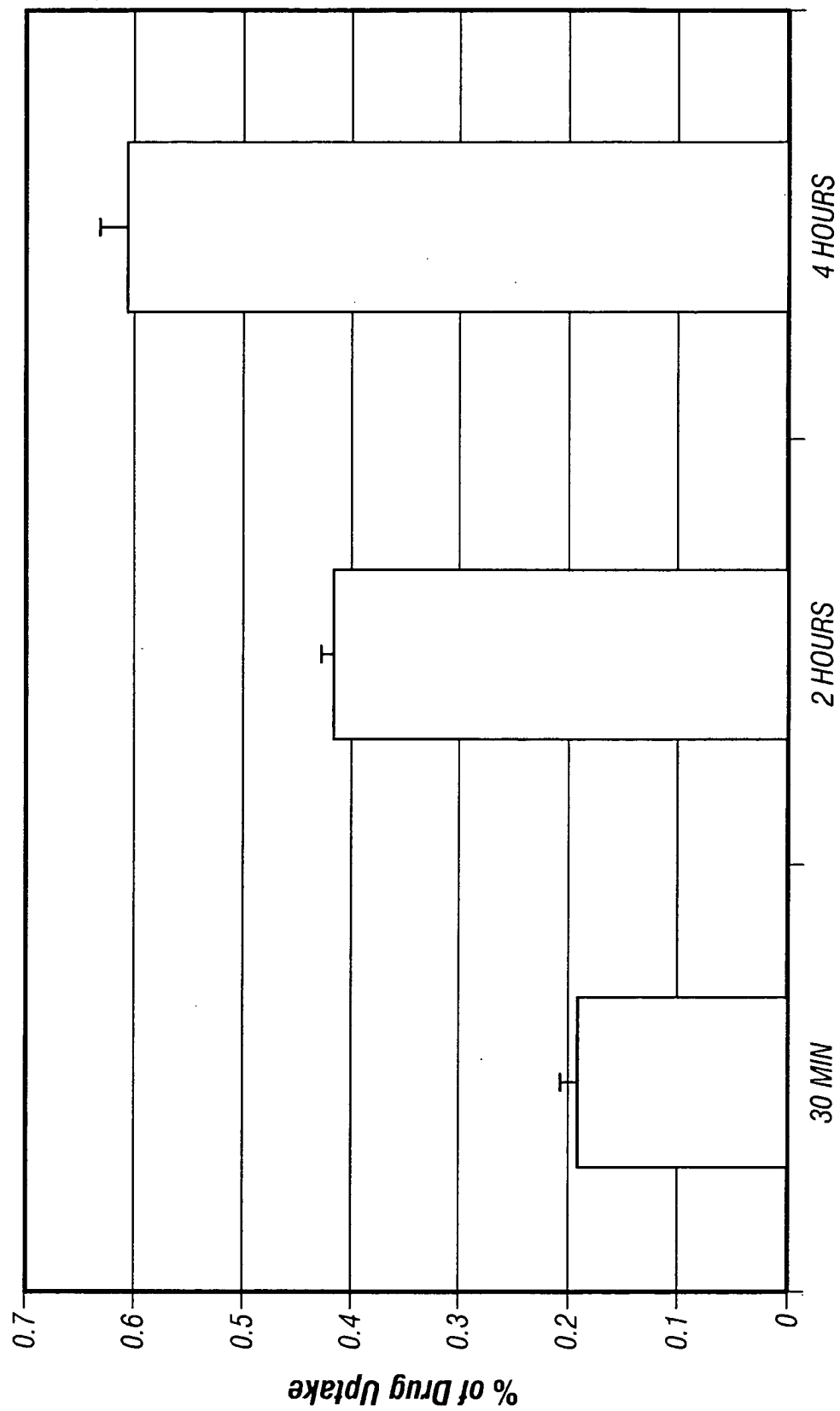


**TIME**  
**FIG. 55A**

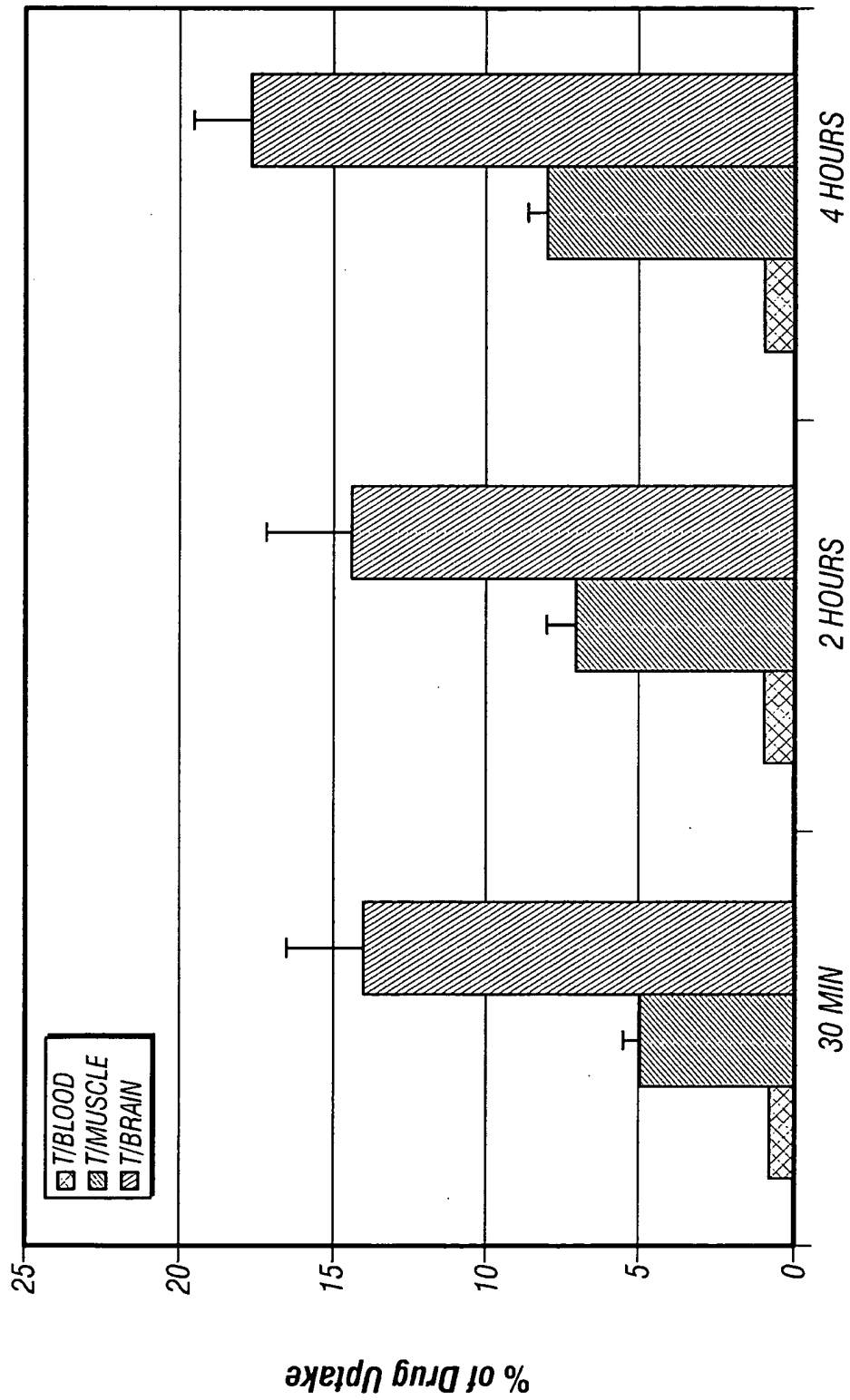


**TIME**  
**FIG. 55B**

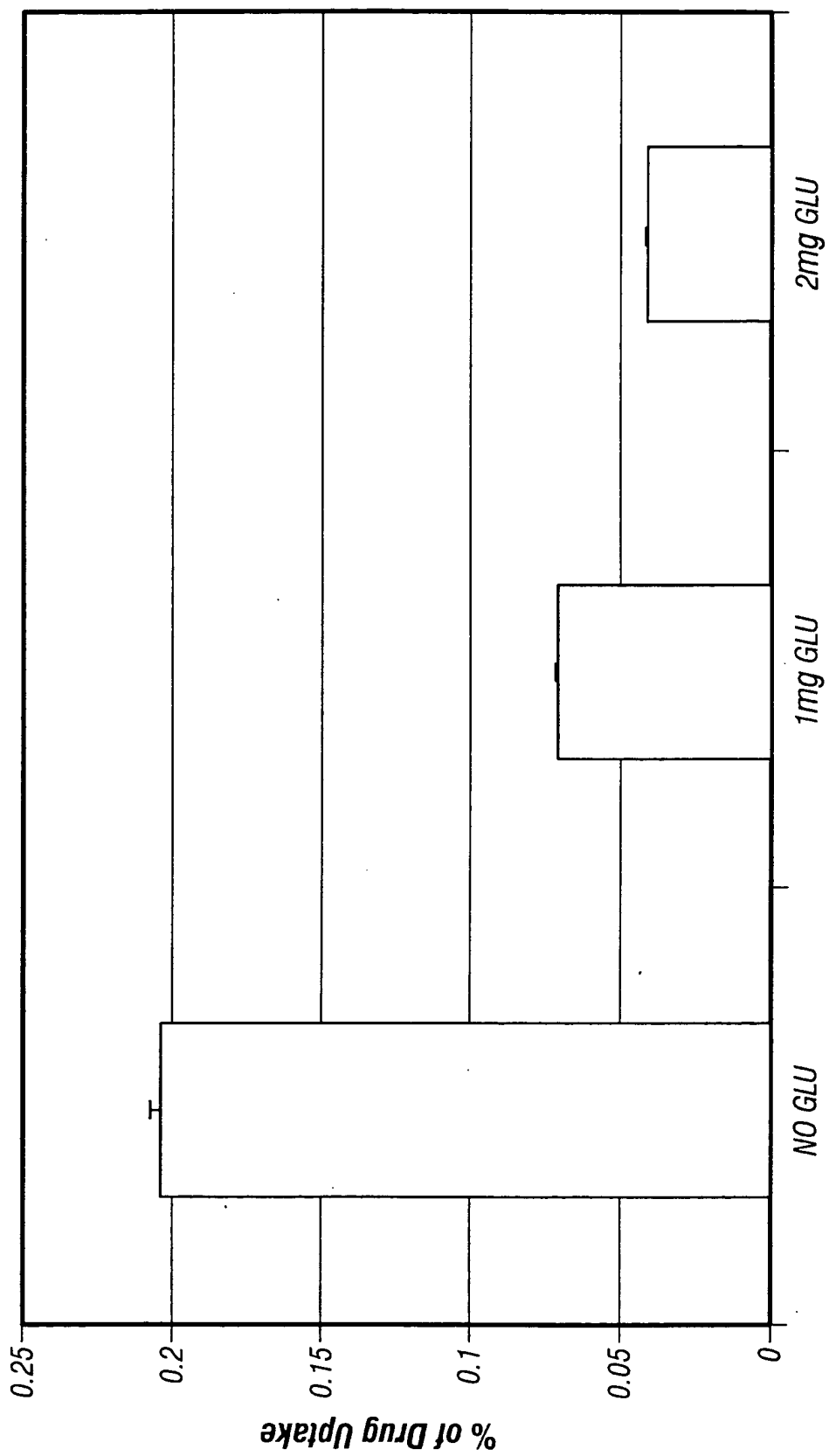




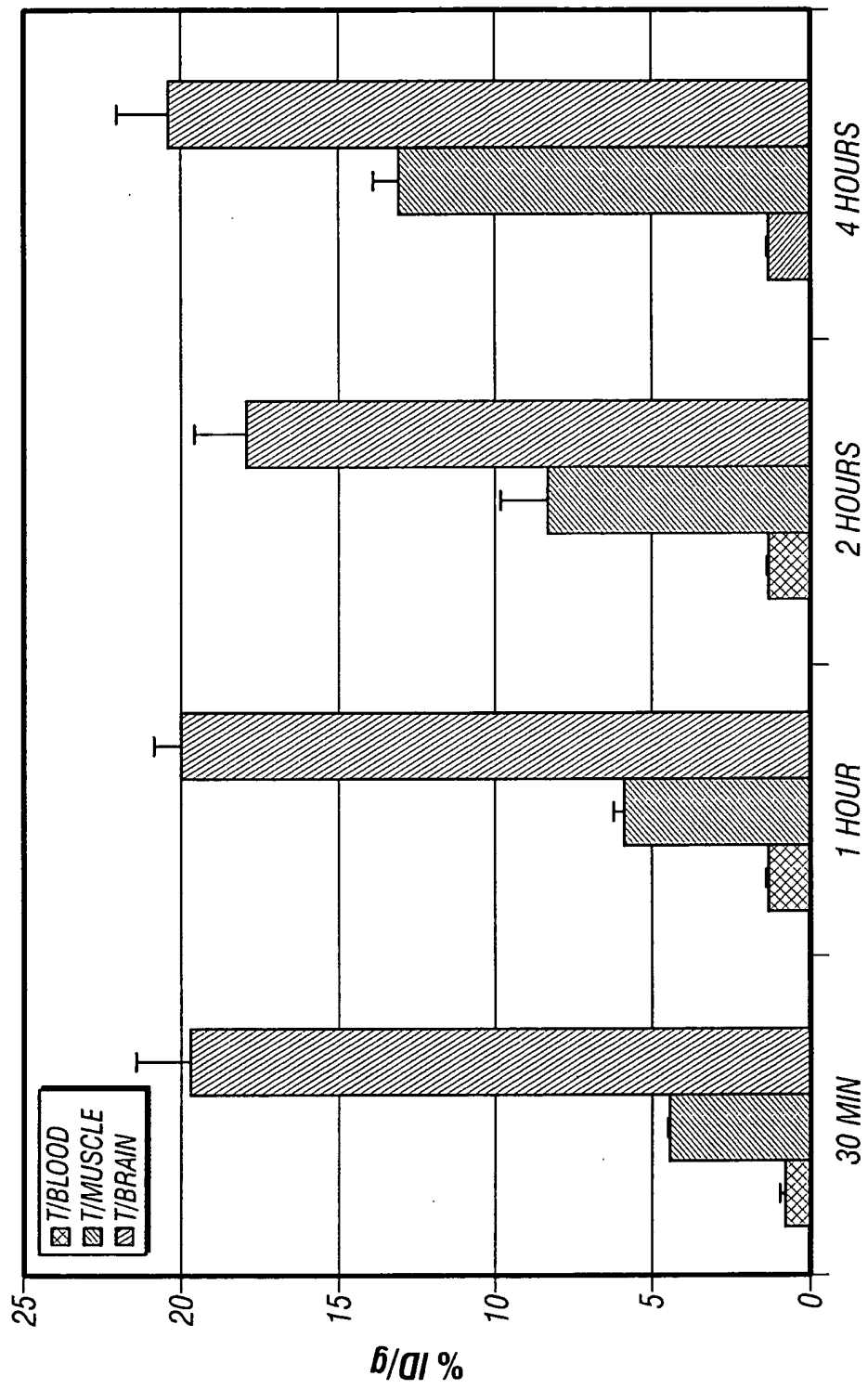
**TIME**  
**FIG. 55C**



TIME  
FIG. 56



**GLUCOSE DOSAGE**  
**FIG. 57**



TIME  
FIG. 58

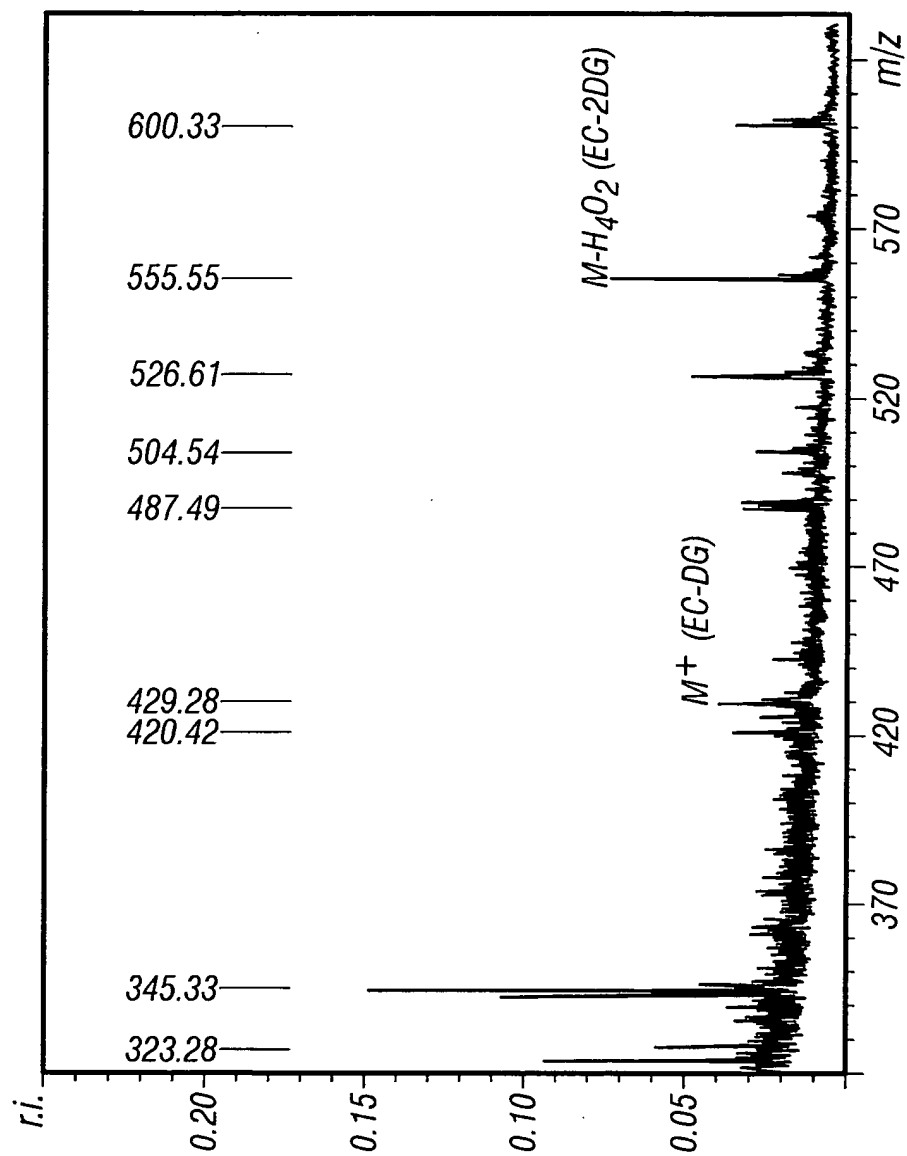
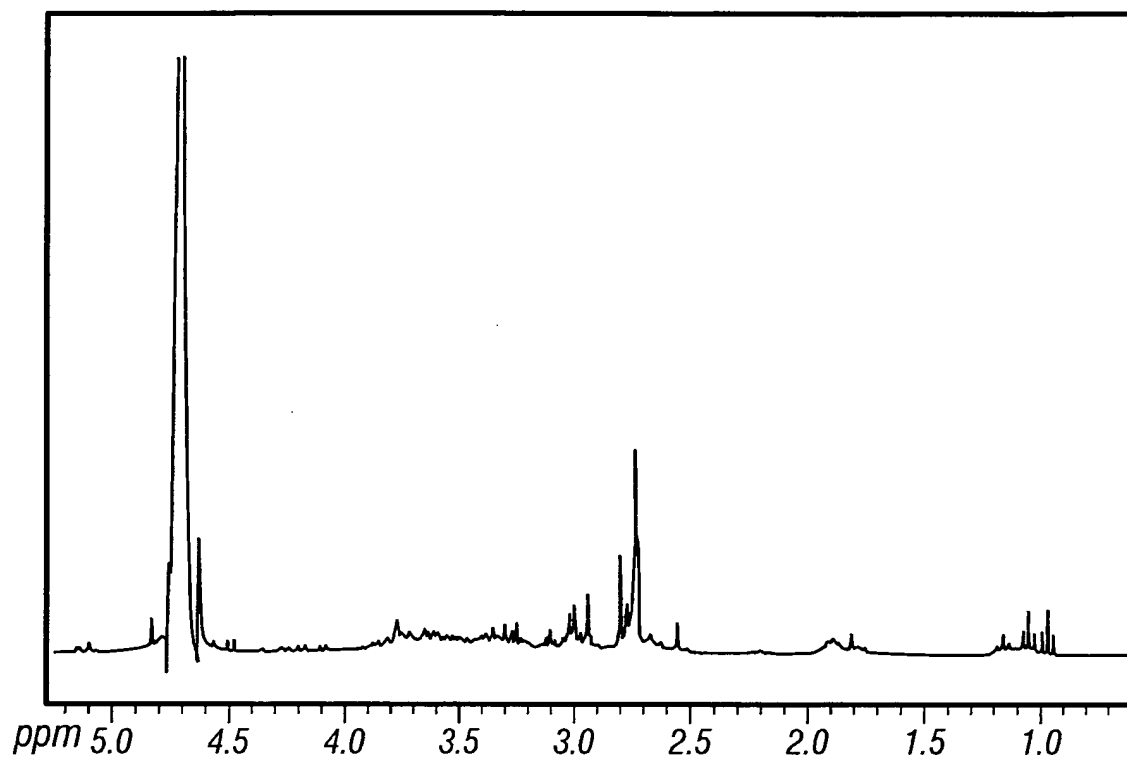
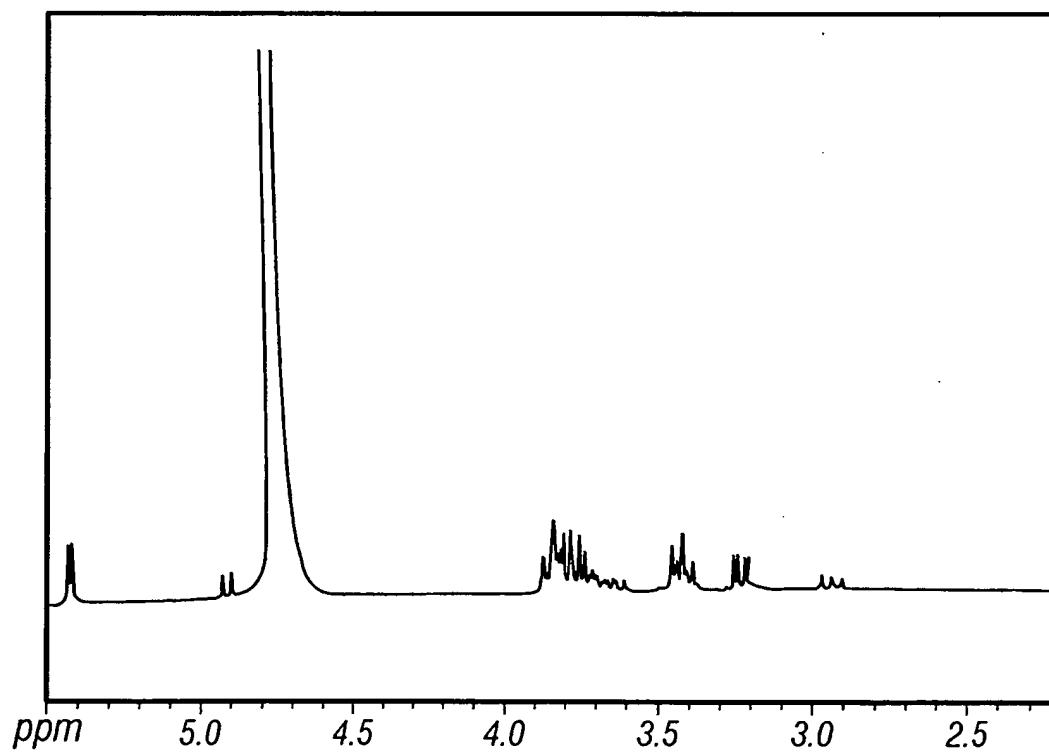


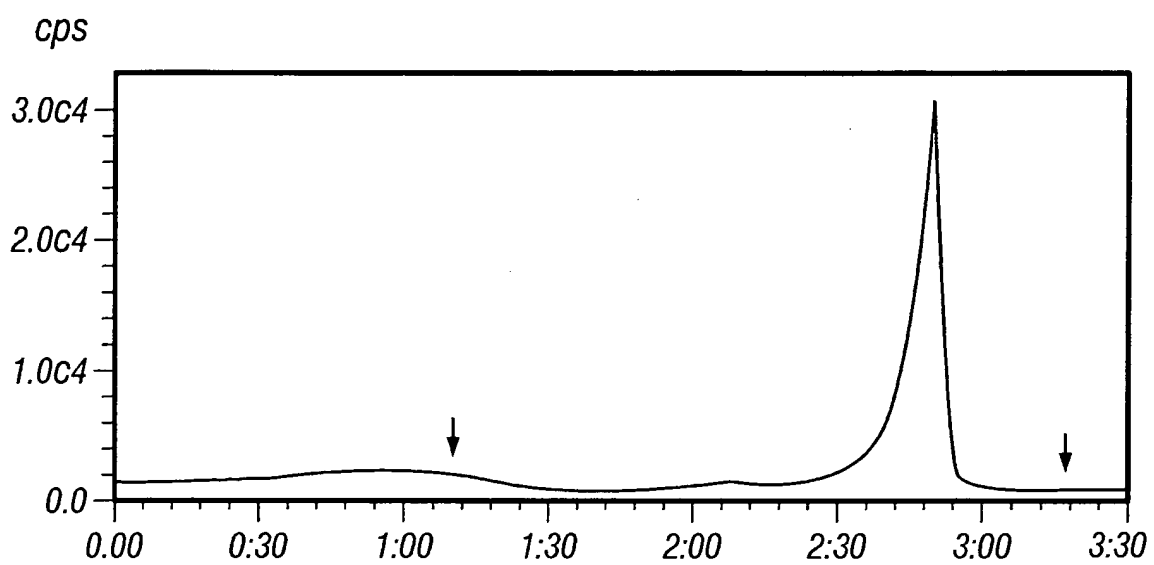
FIG. 60



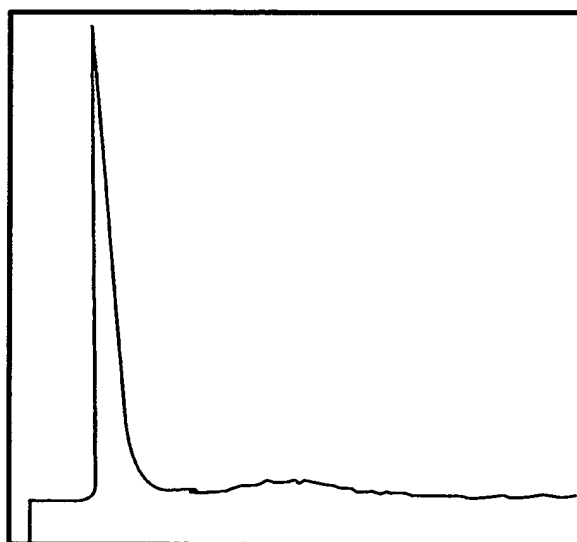
**FIG. 61**



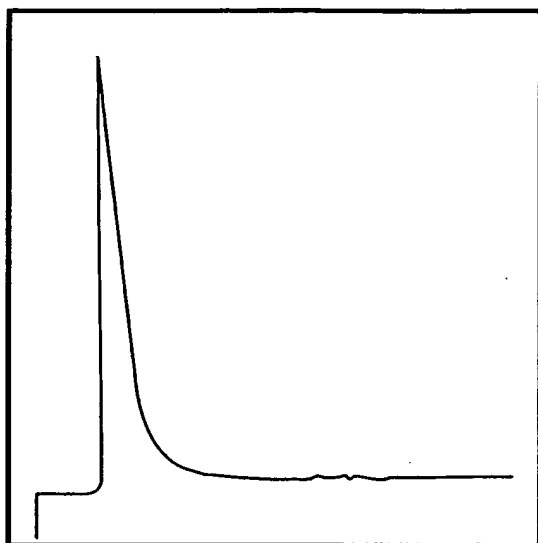
**FIG. 62**



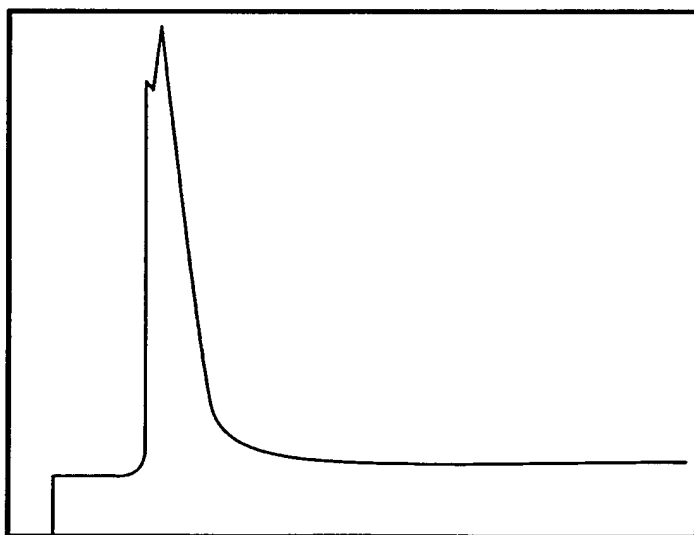
**FIG. 63**



**FIG. 64A**

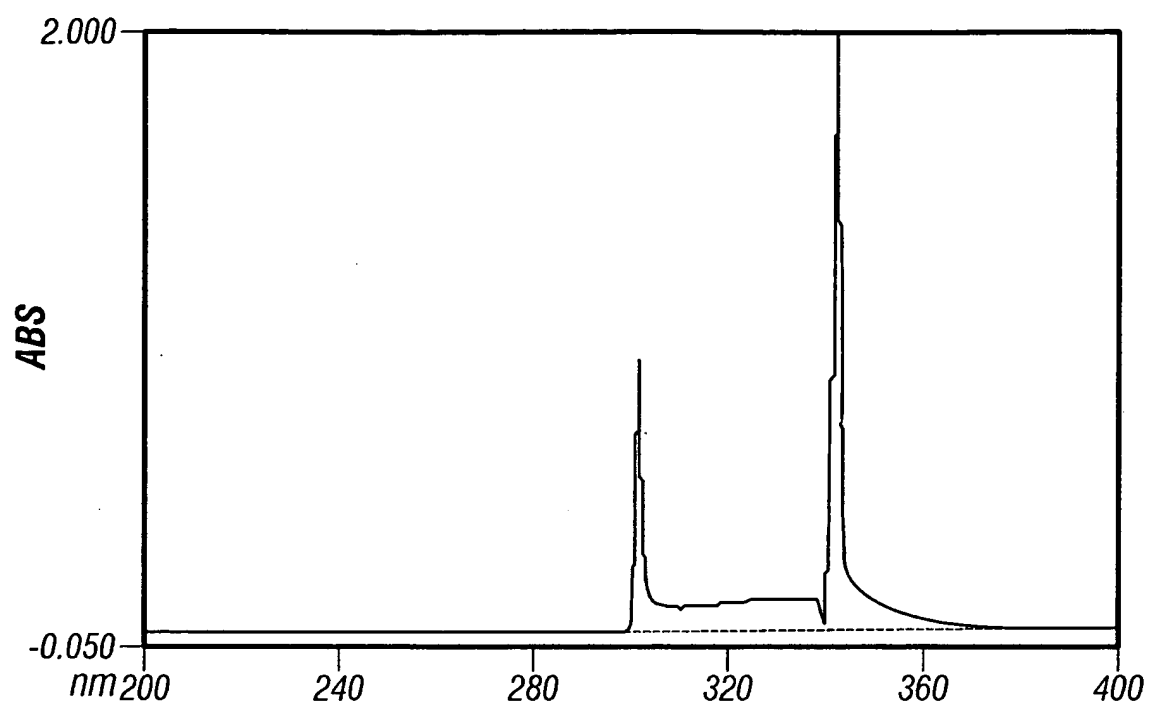


***FIG. 64B***

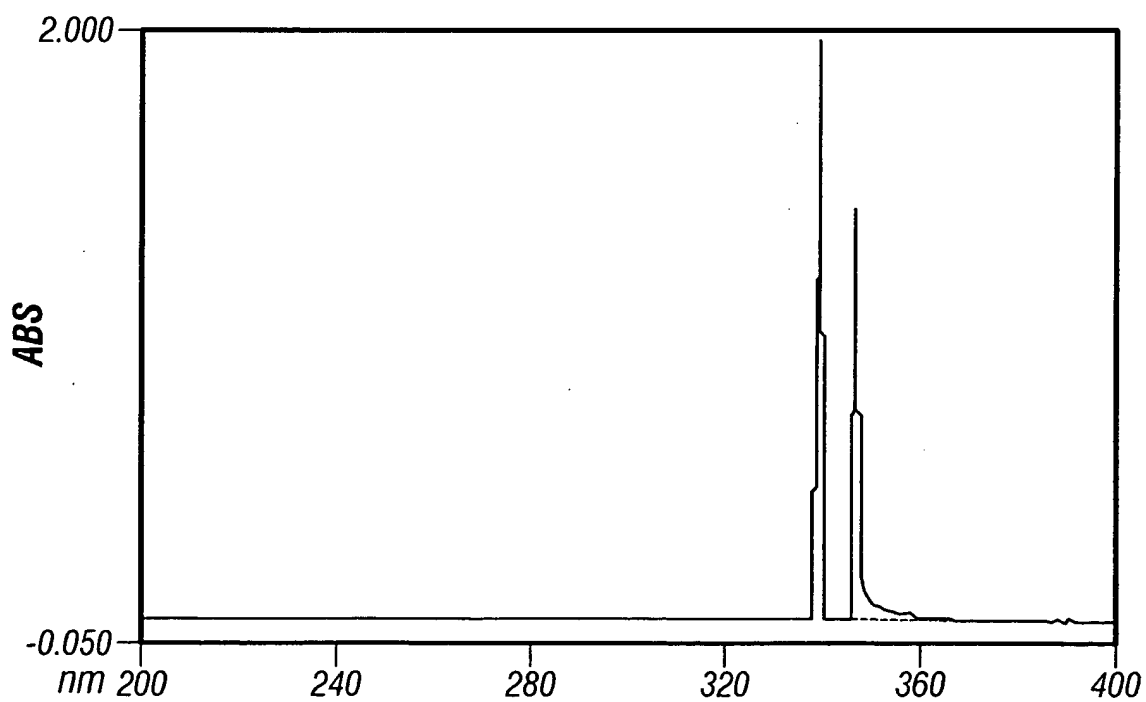


***FIG. 65***

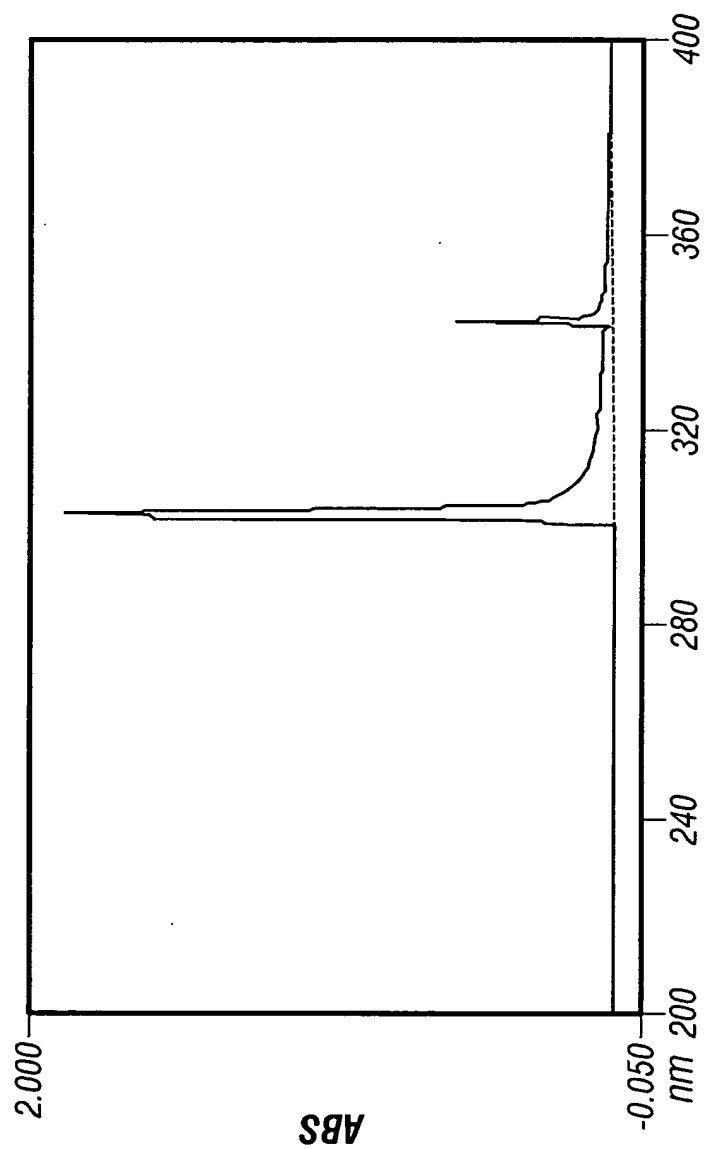




**FIG. 66**



**FIG. 67**



**FIG. 68**

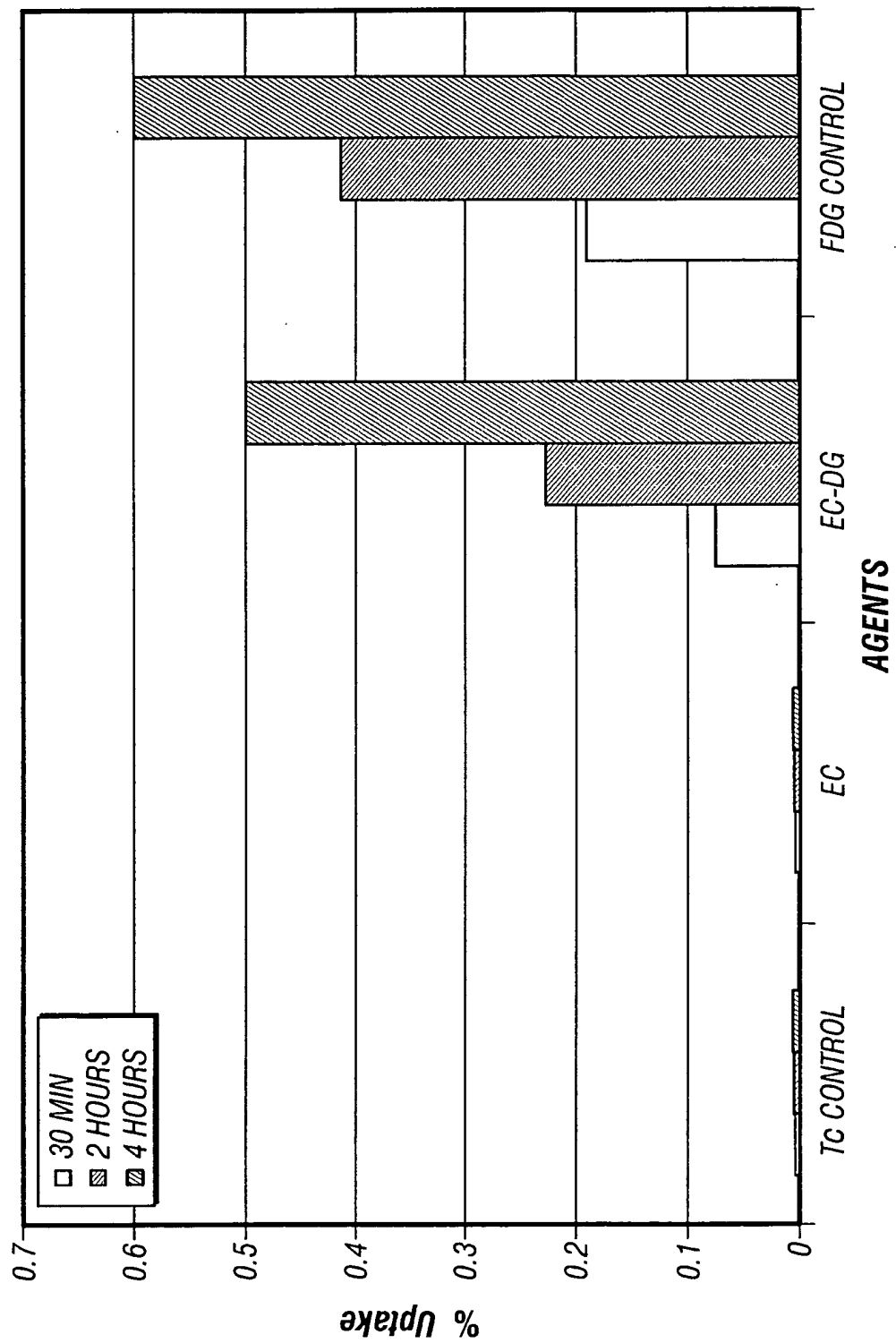
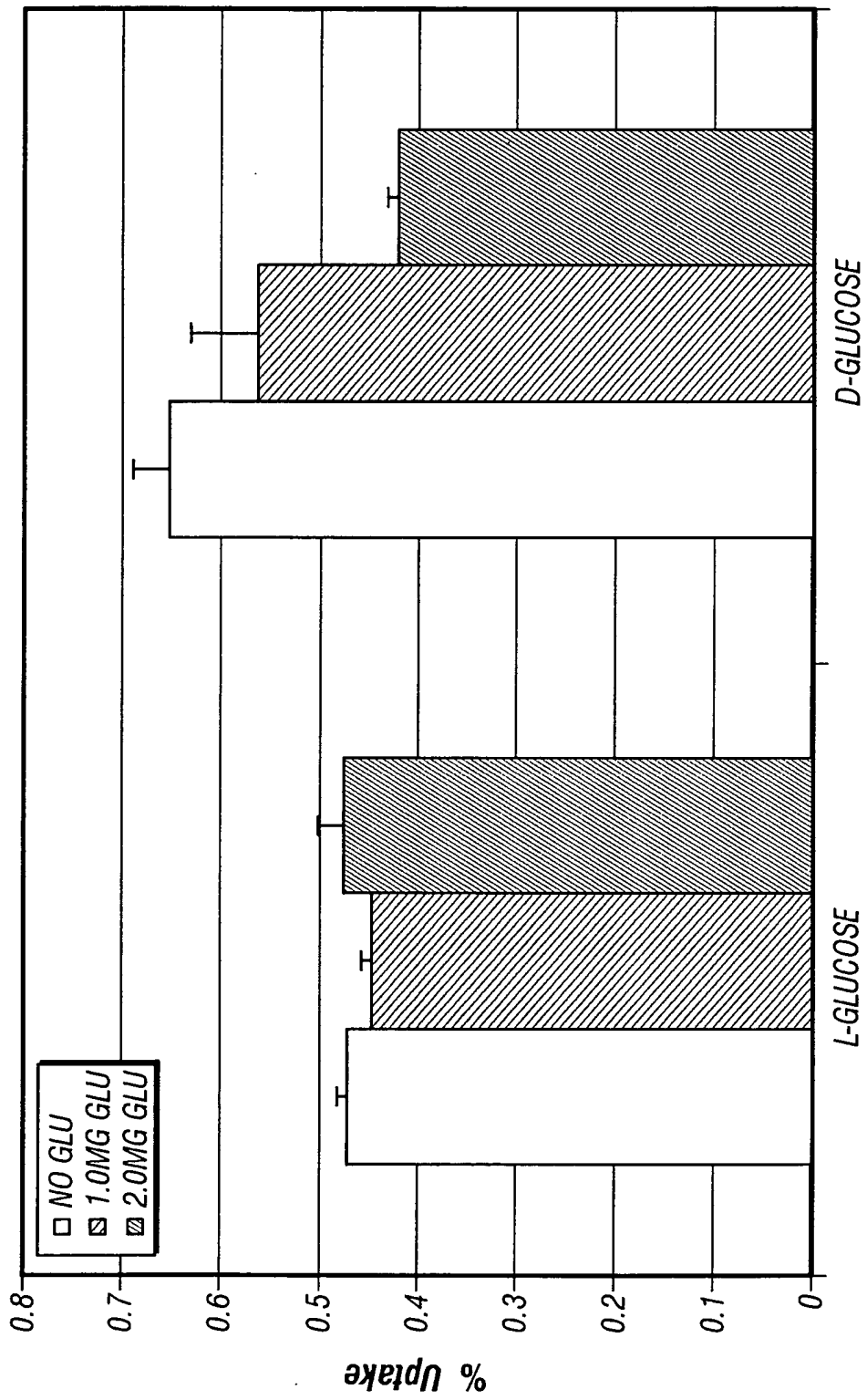
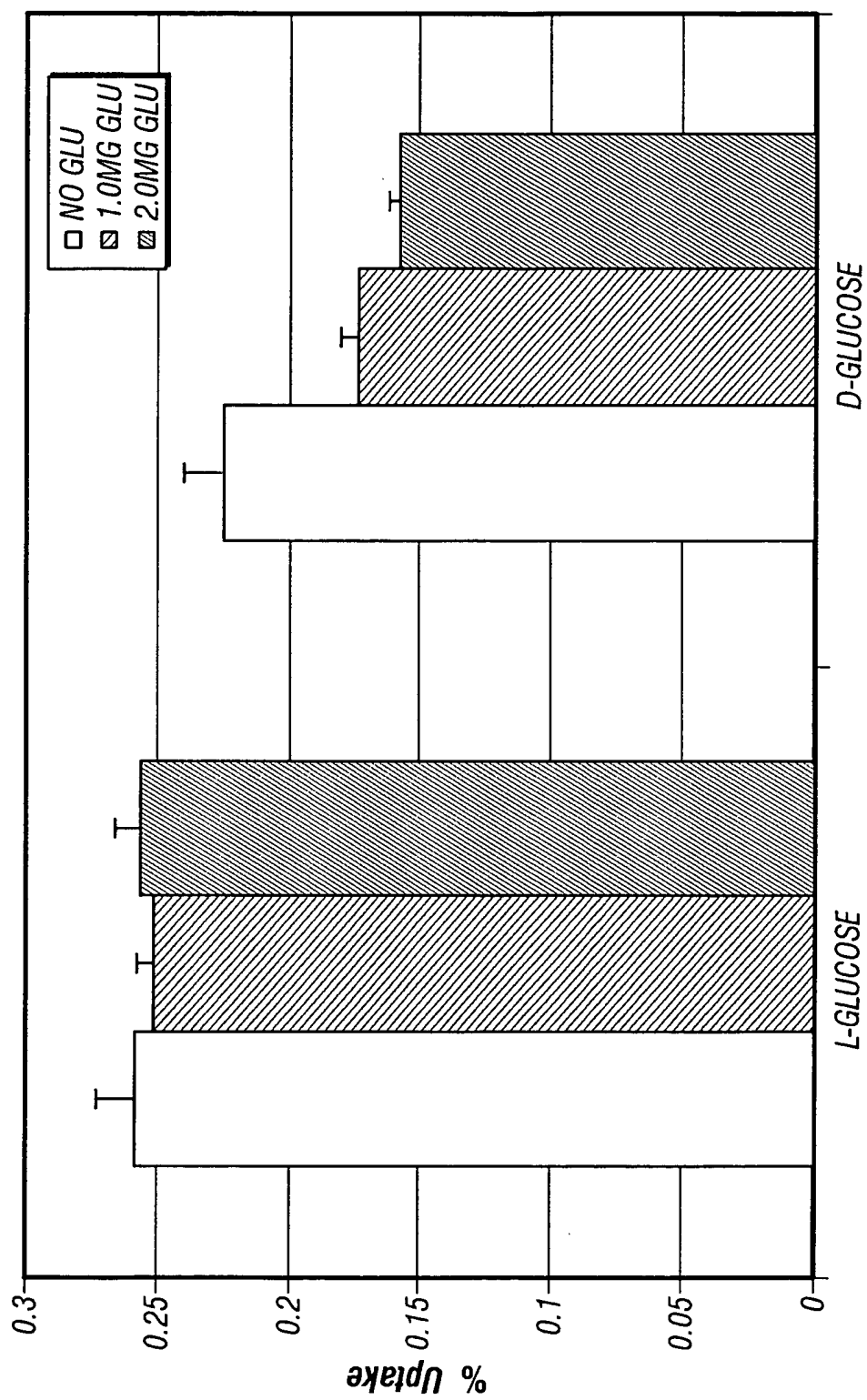


FIG. 69



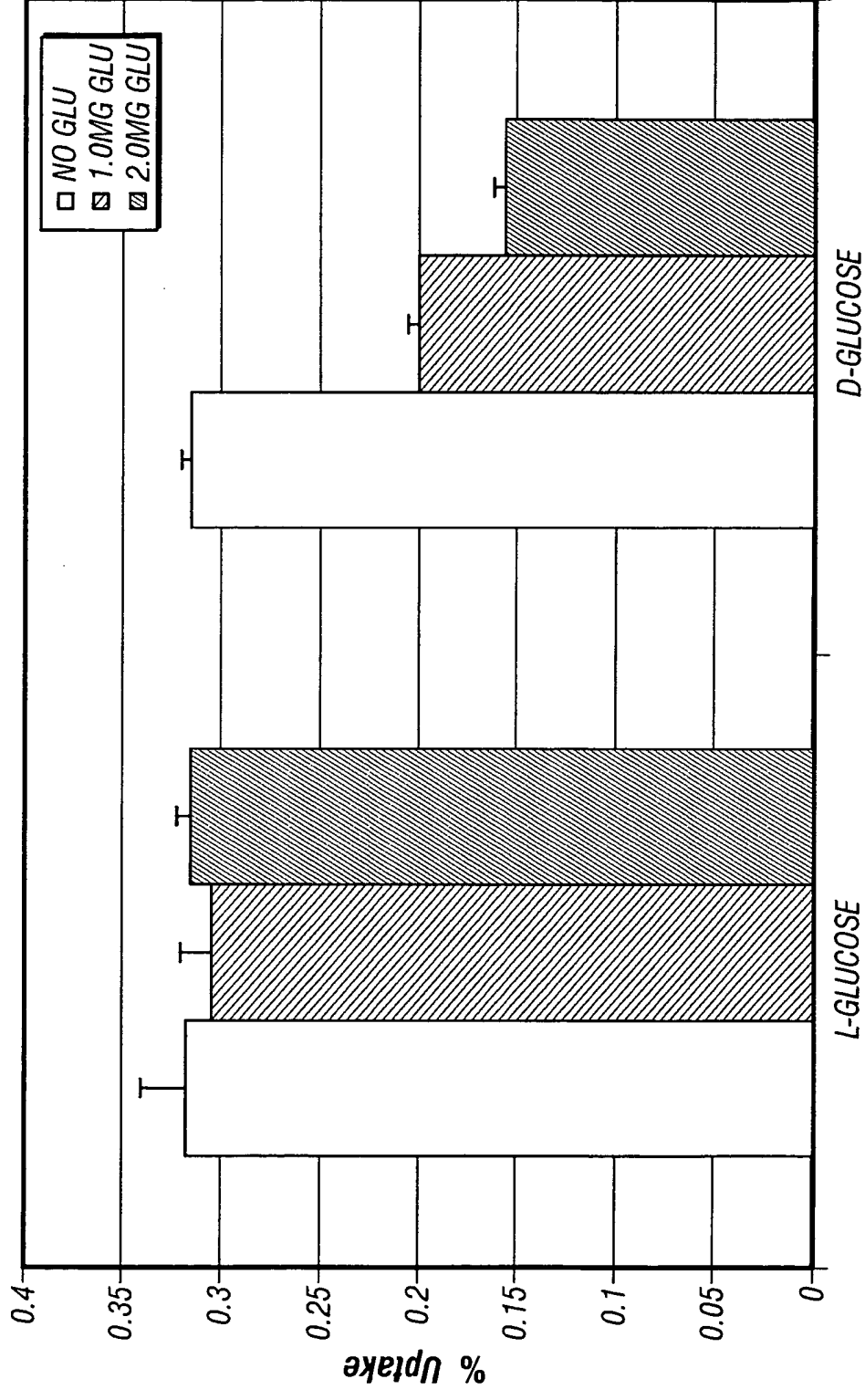
Glucose Isomer

FIG. 70



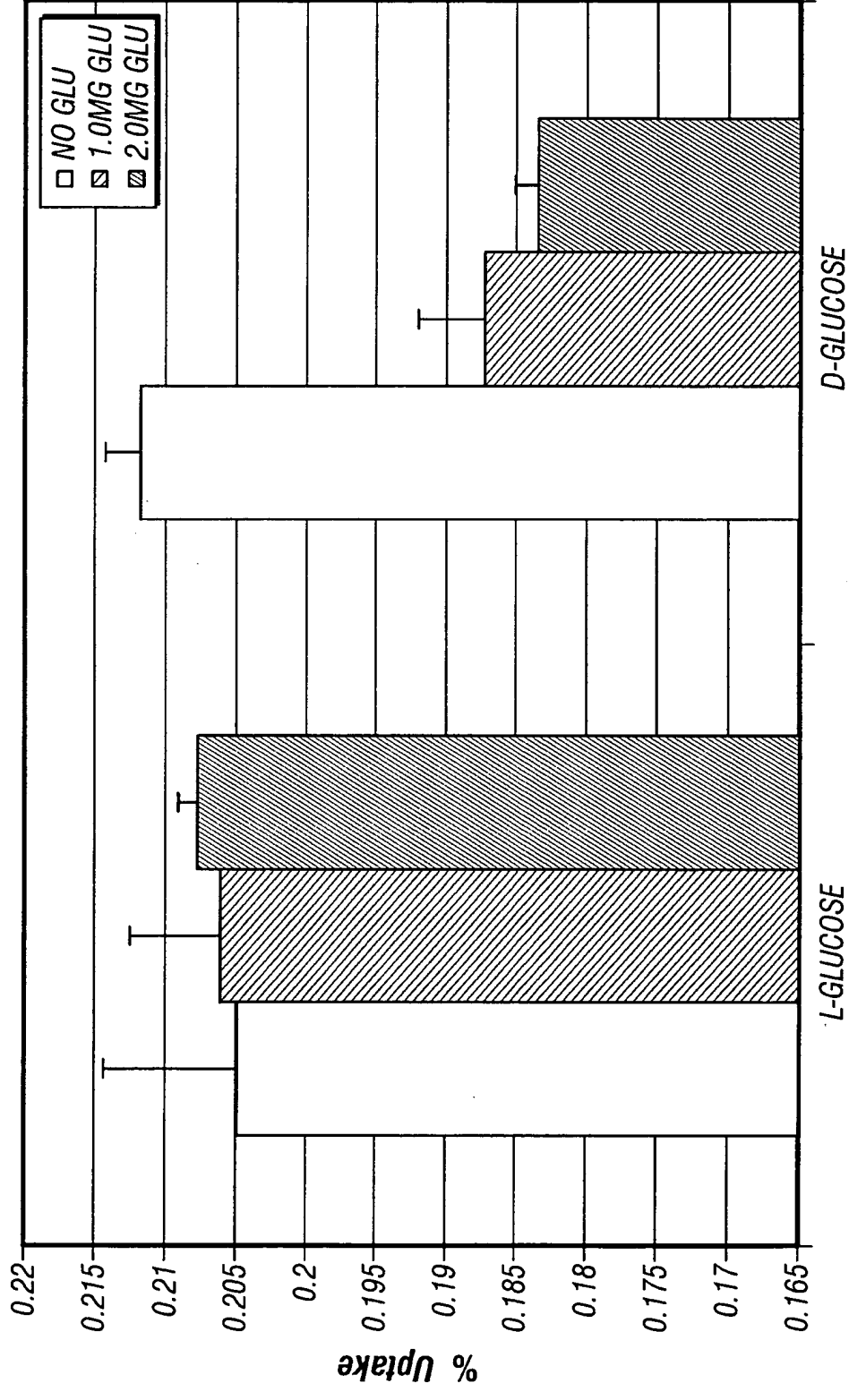
Glucose Isomer

FIG. 71



Glucose Isomer

FIG. 72



Glucose Isomer

FIG. 73

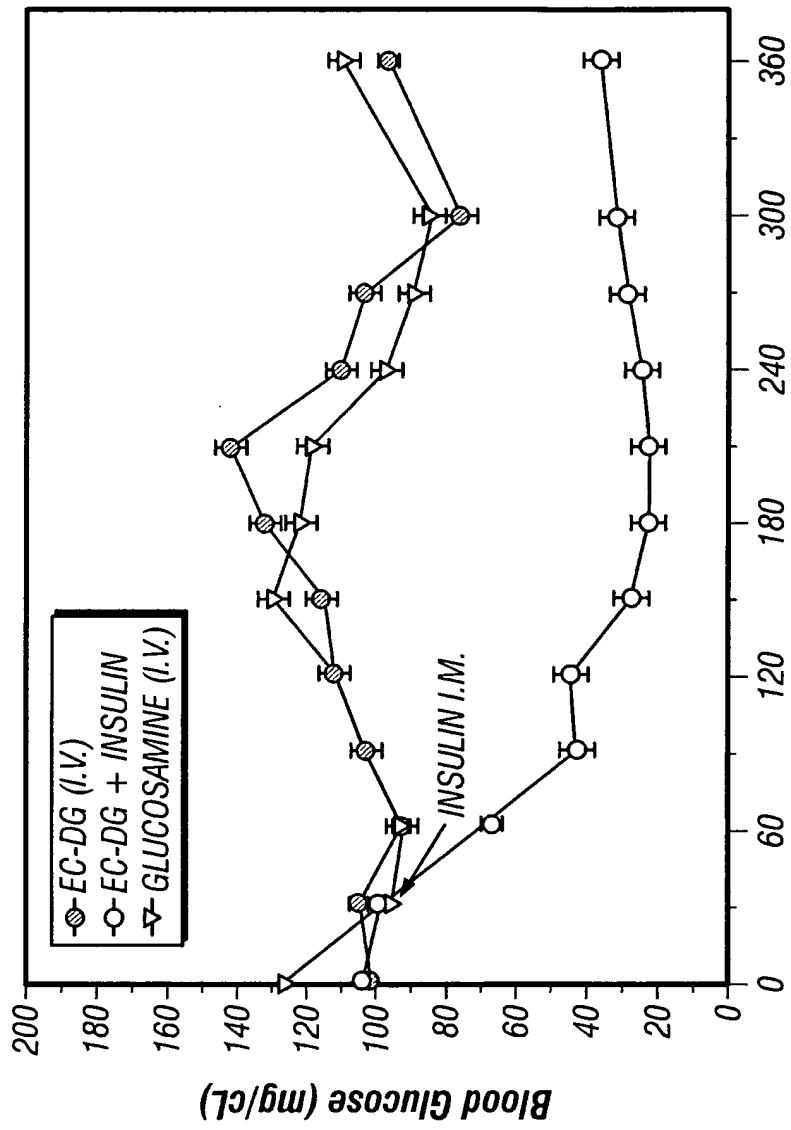
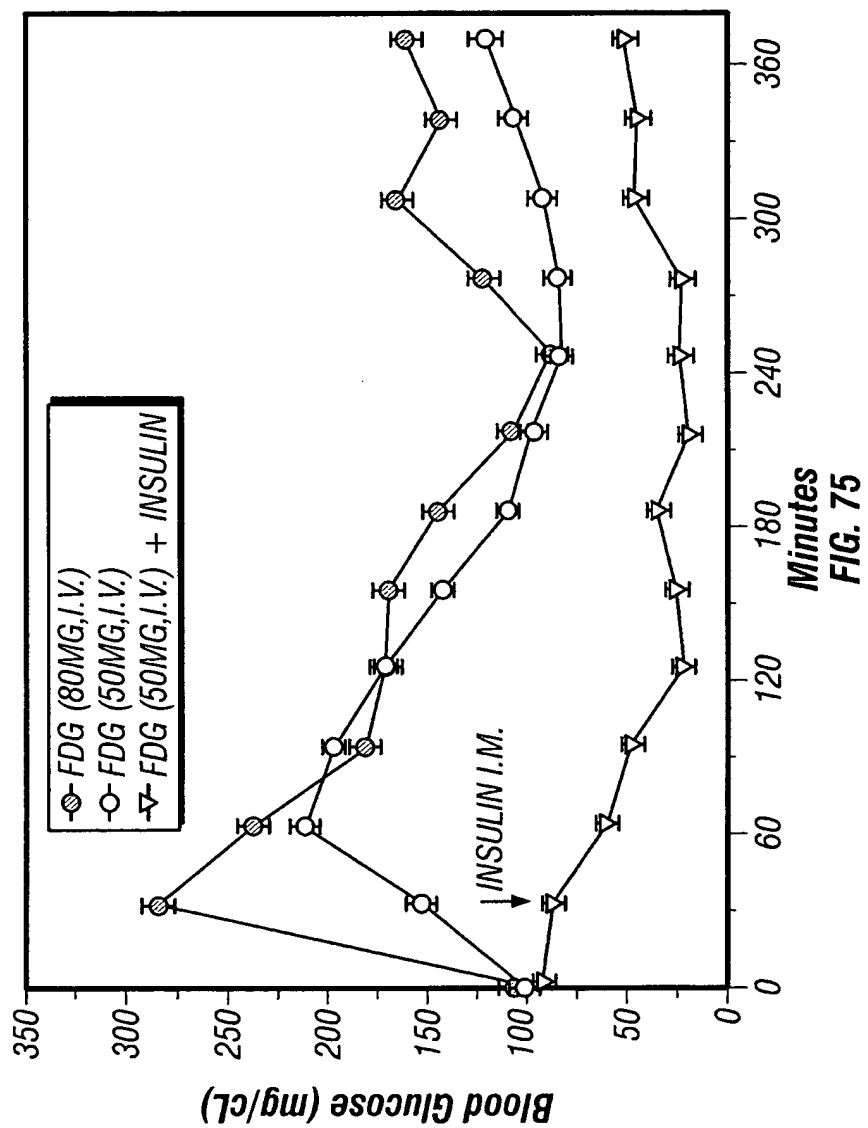
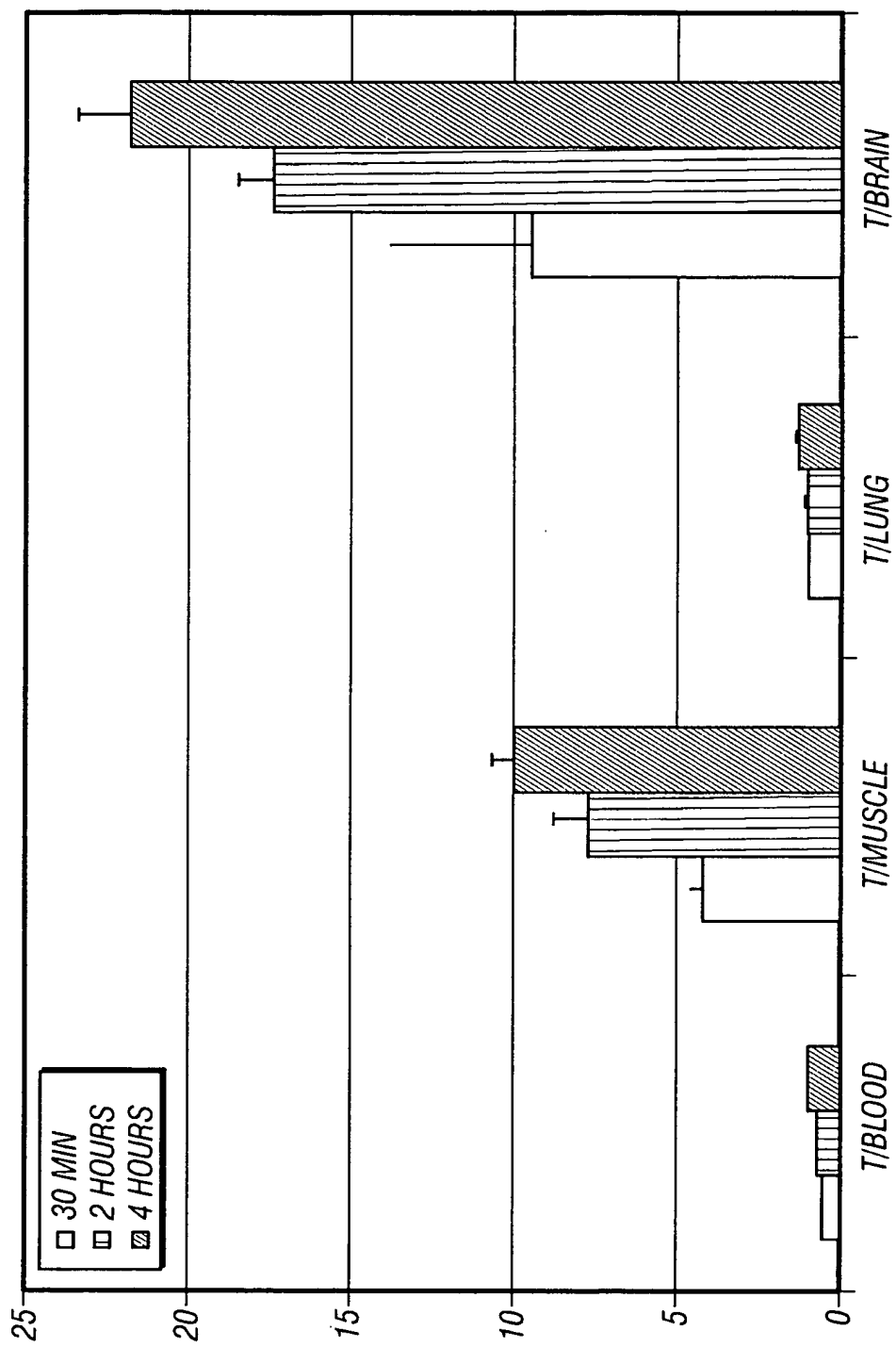


FIG. 74

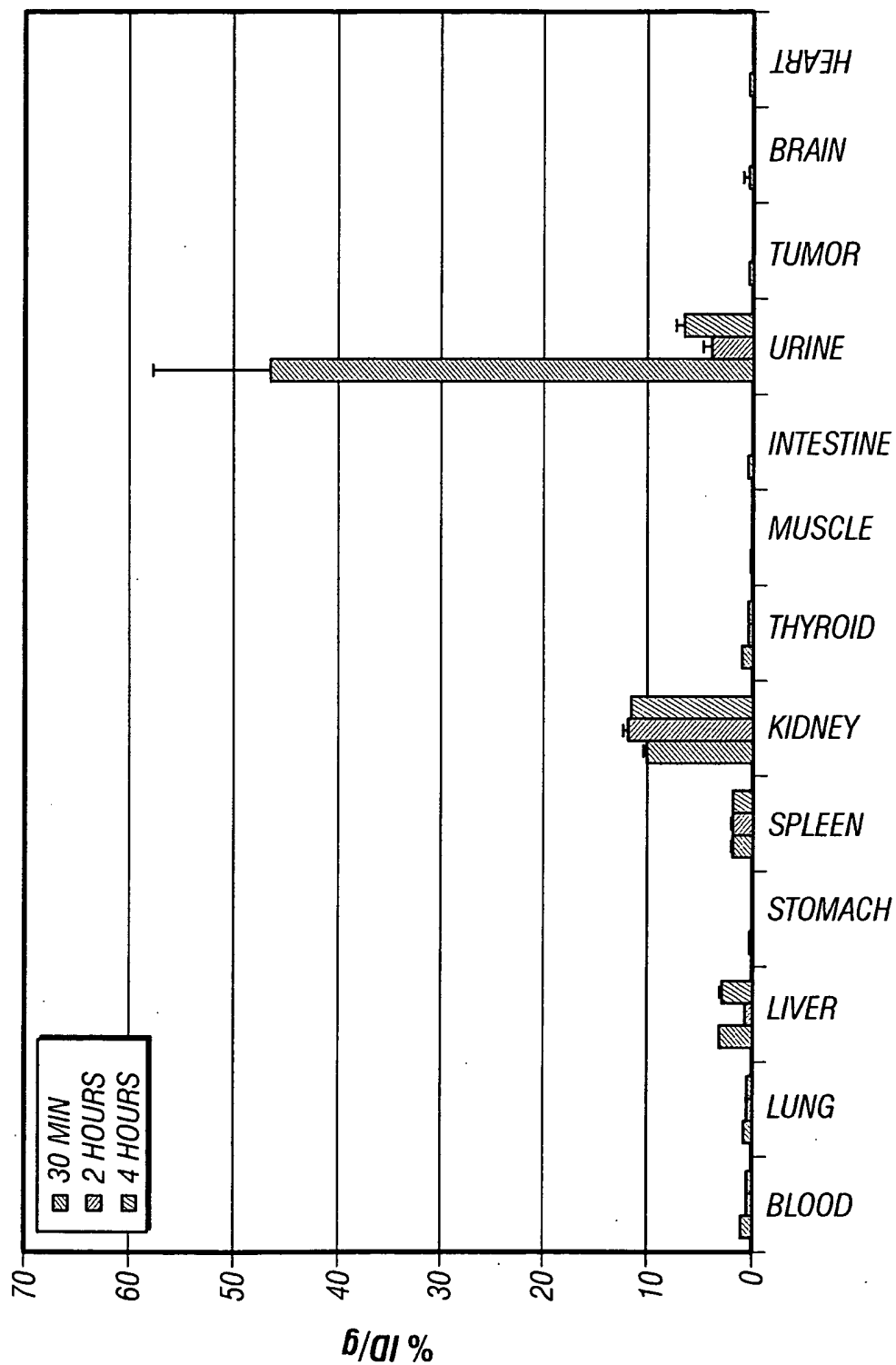




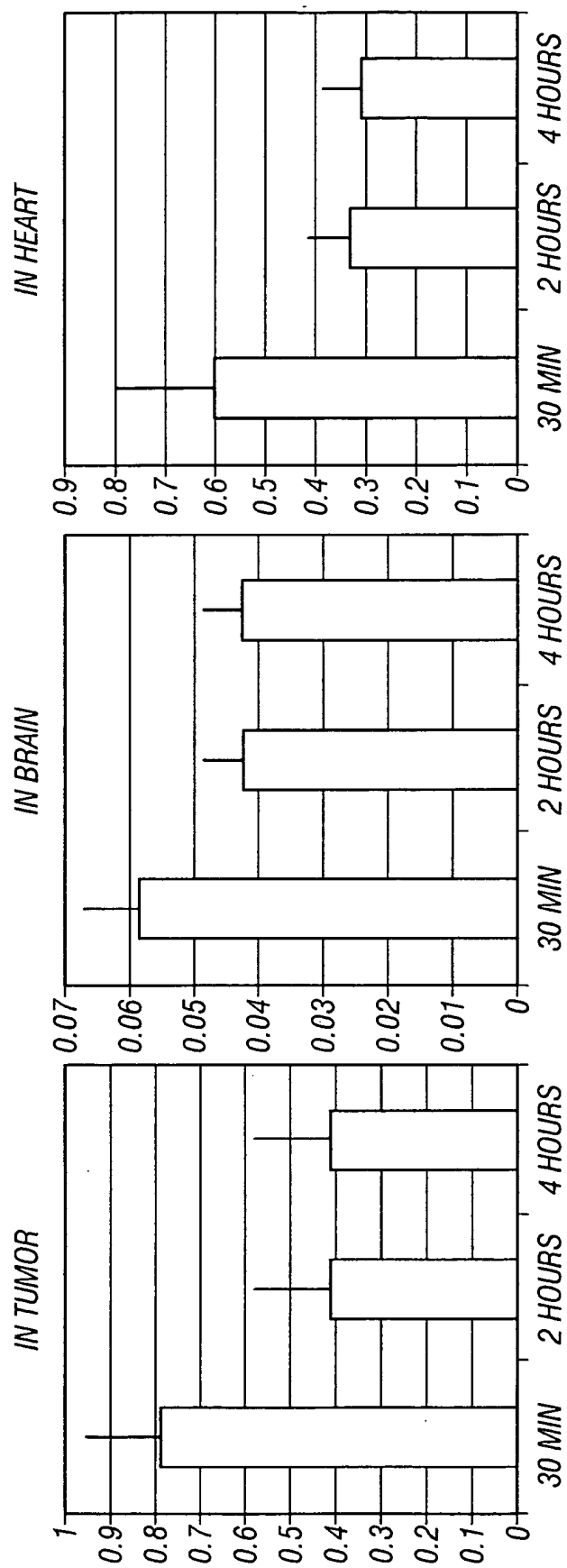


*T = Tumor*

**FIG. 76**



ORGANS  
FIG. 77



**FIG. 78**

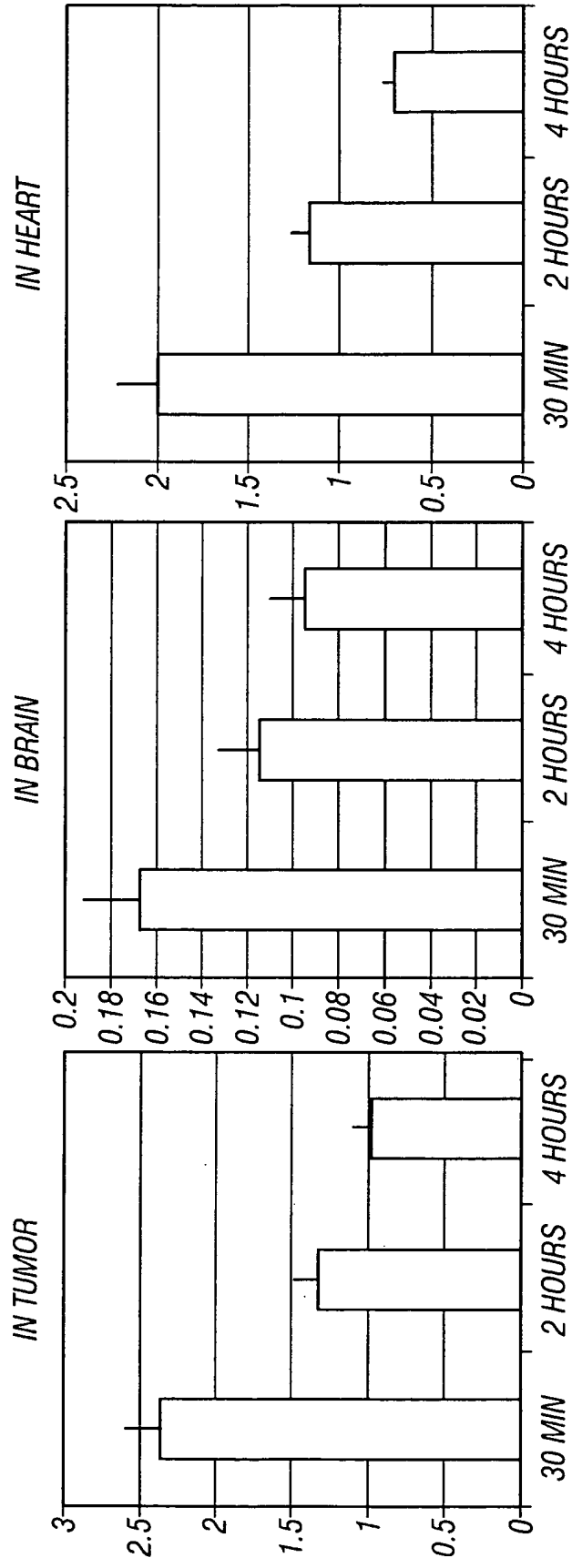
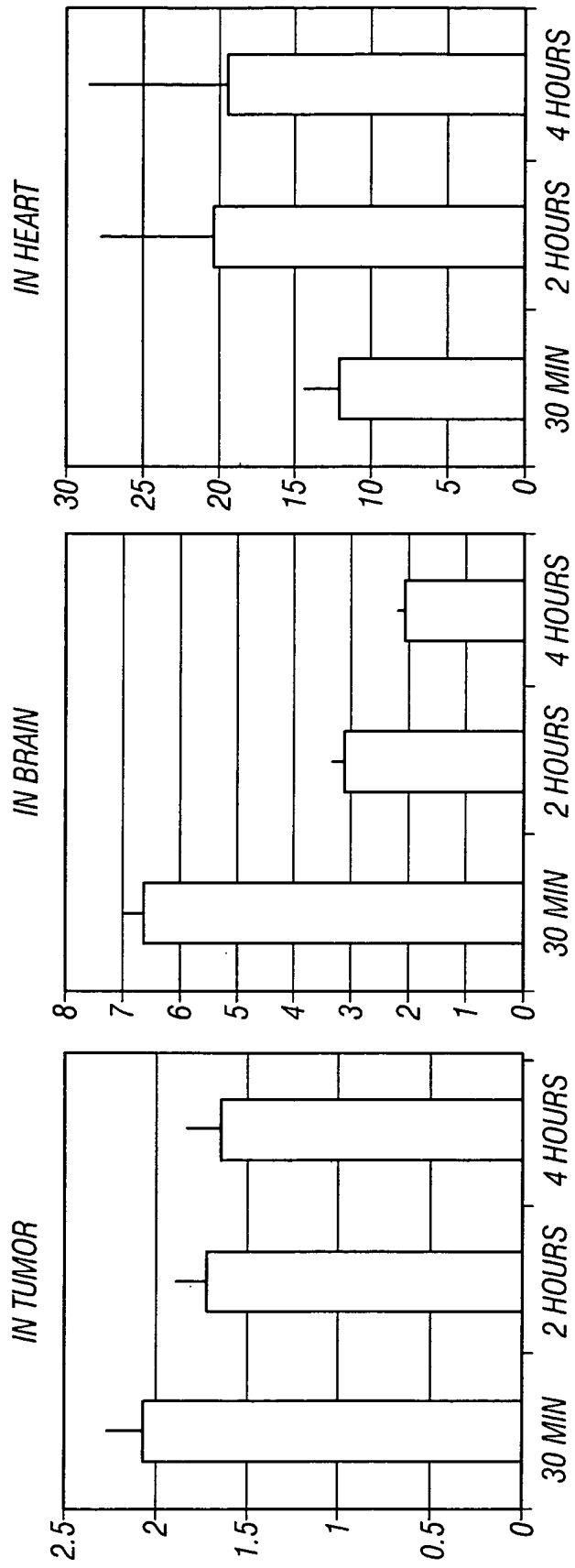
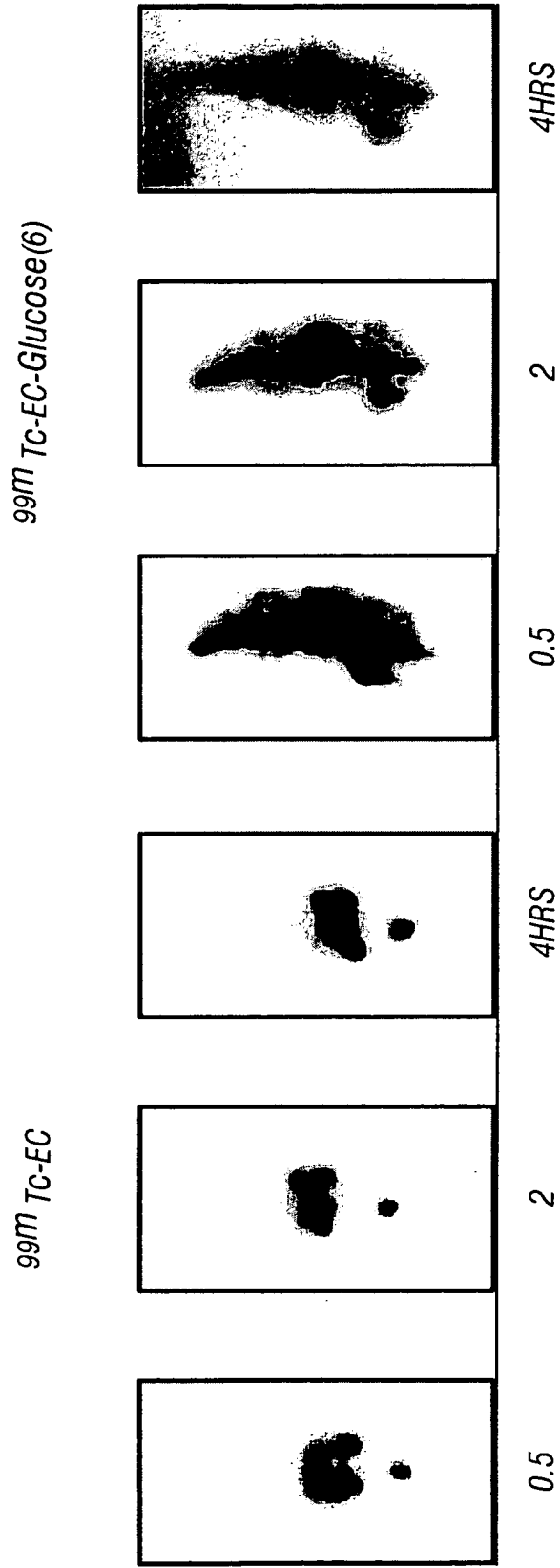


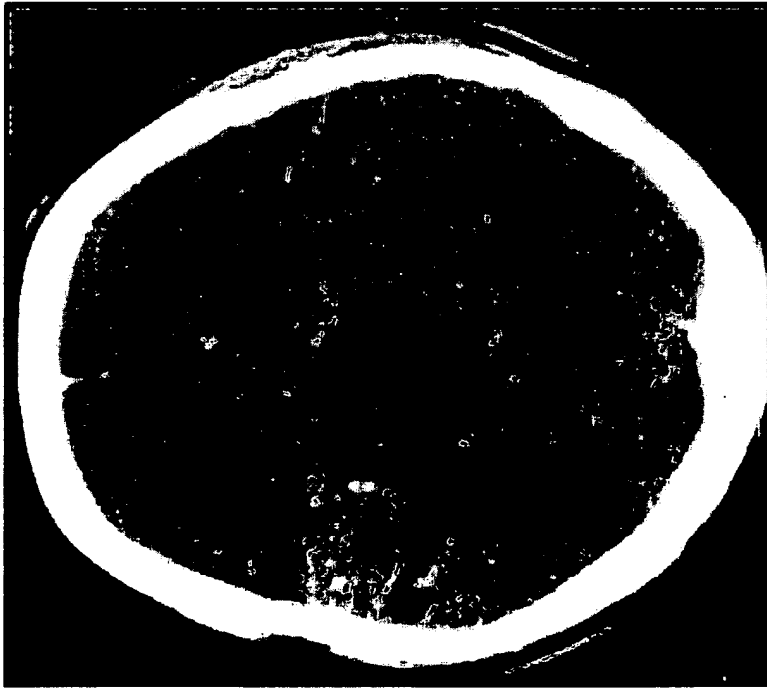
FIG. 79



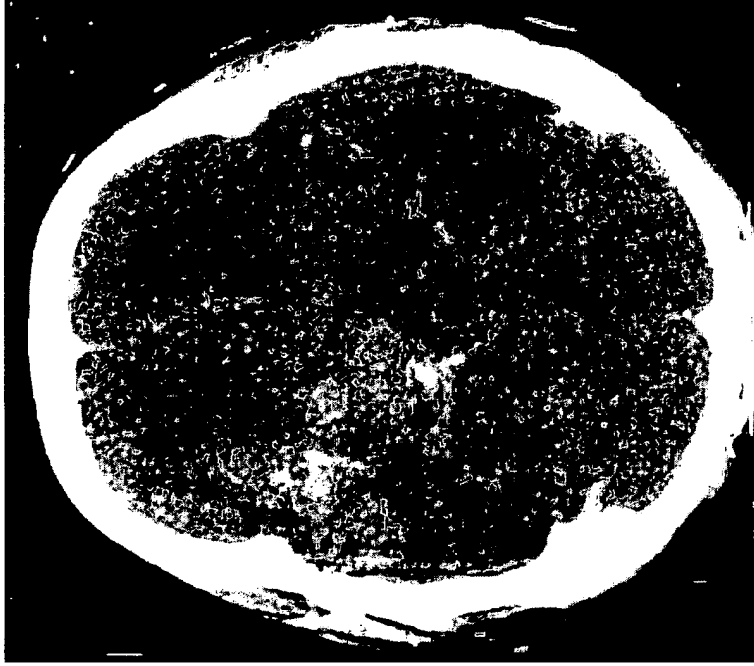
**FIG. 80**



**FIG. 81**



PRE OP



POST OP

FIG. 82A



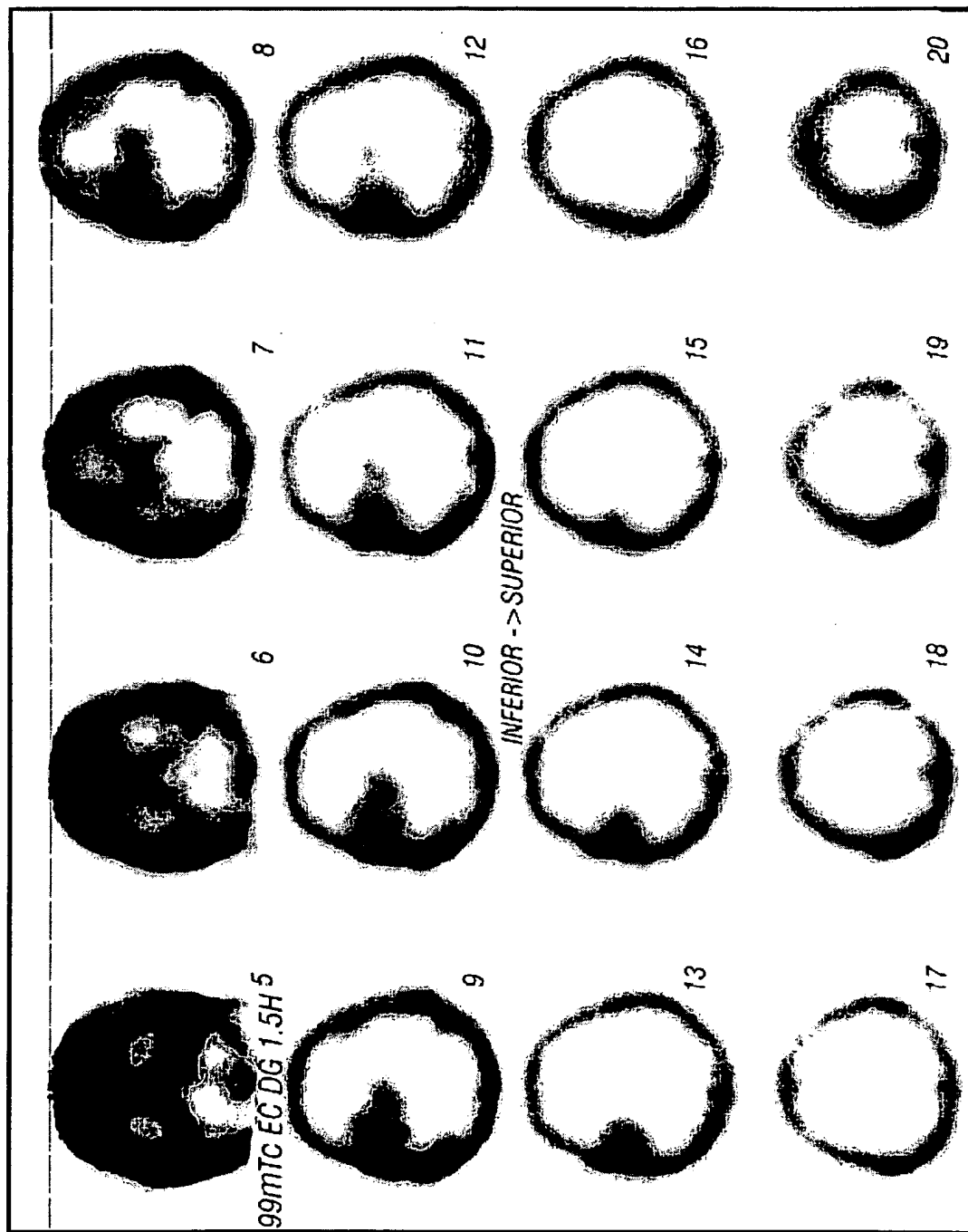
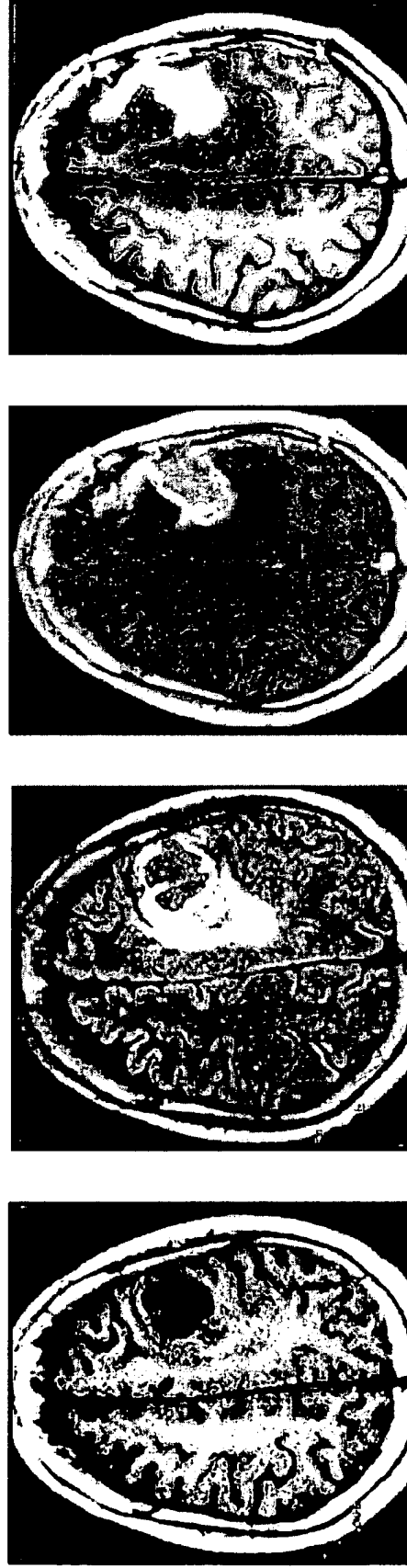


FIG. 82B



PRE-OP

POST-OP

FIG. 83A

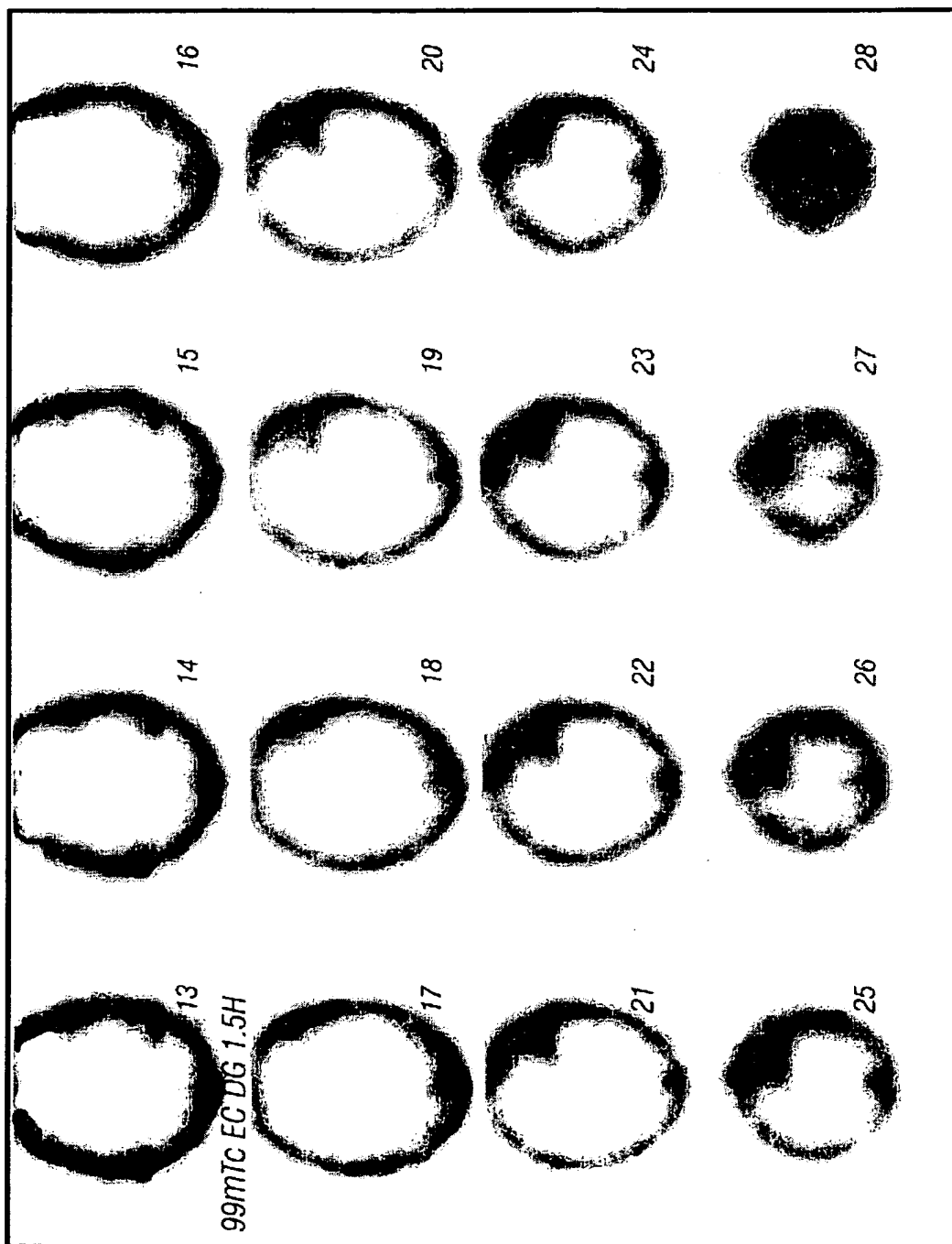
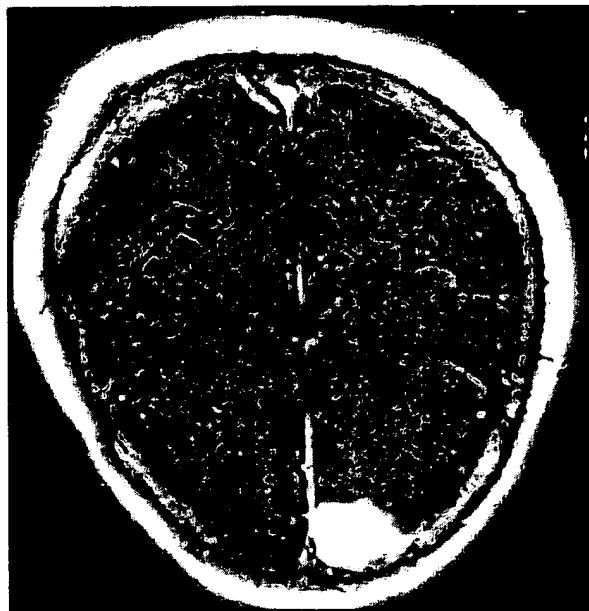


FIG. 83B



*FIG. 84A*



*FIG. 85A*

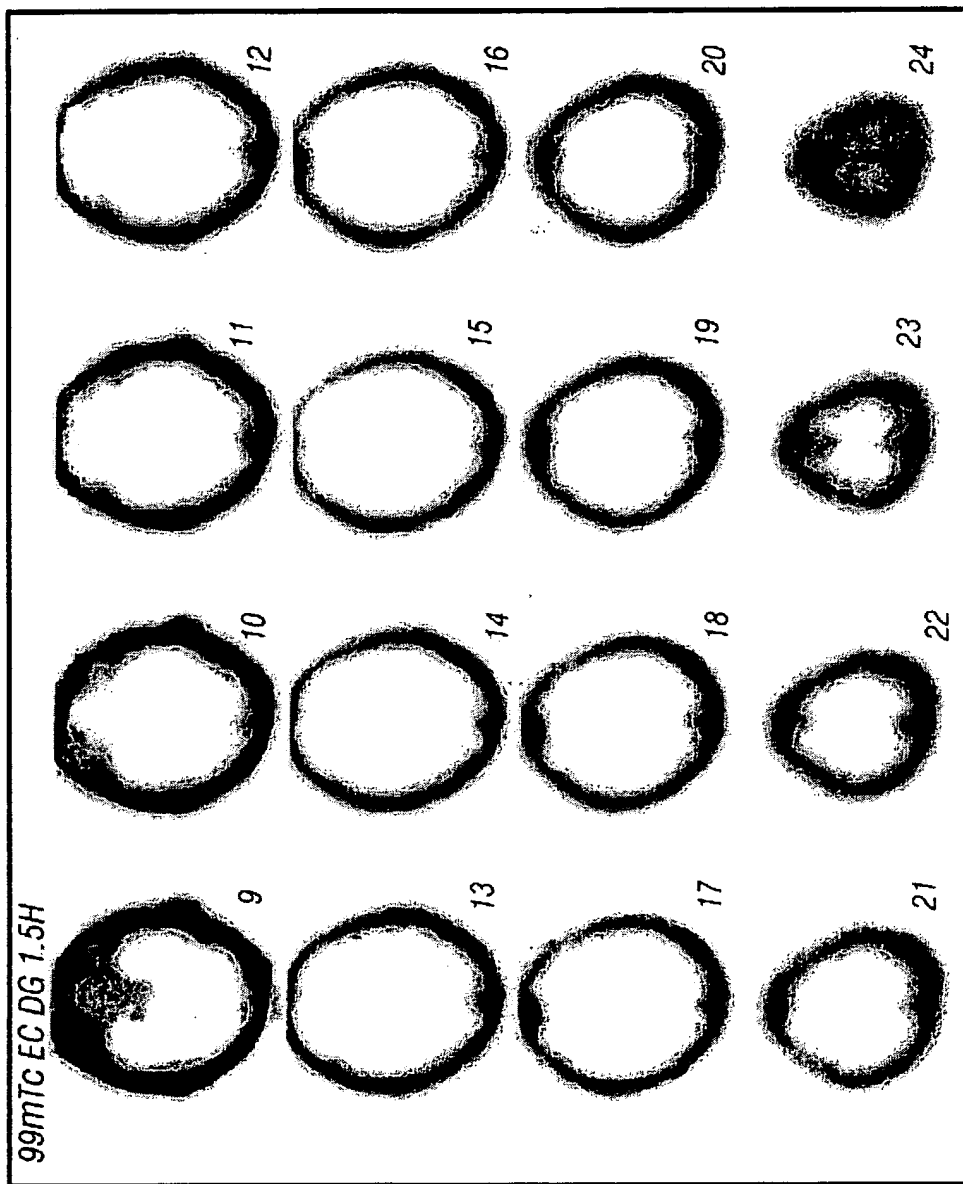


FIG. 84B

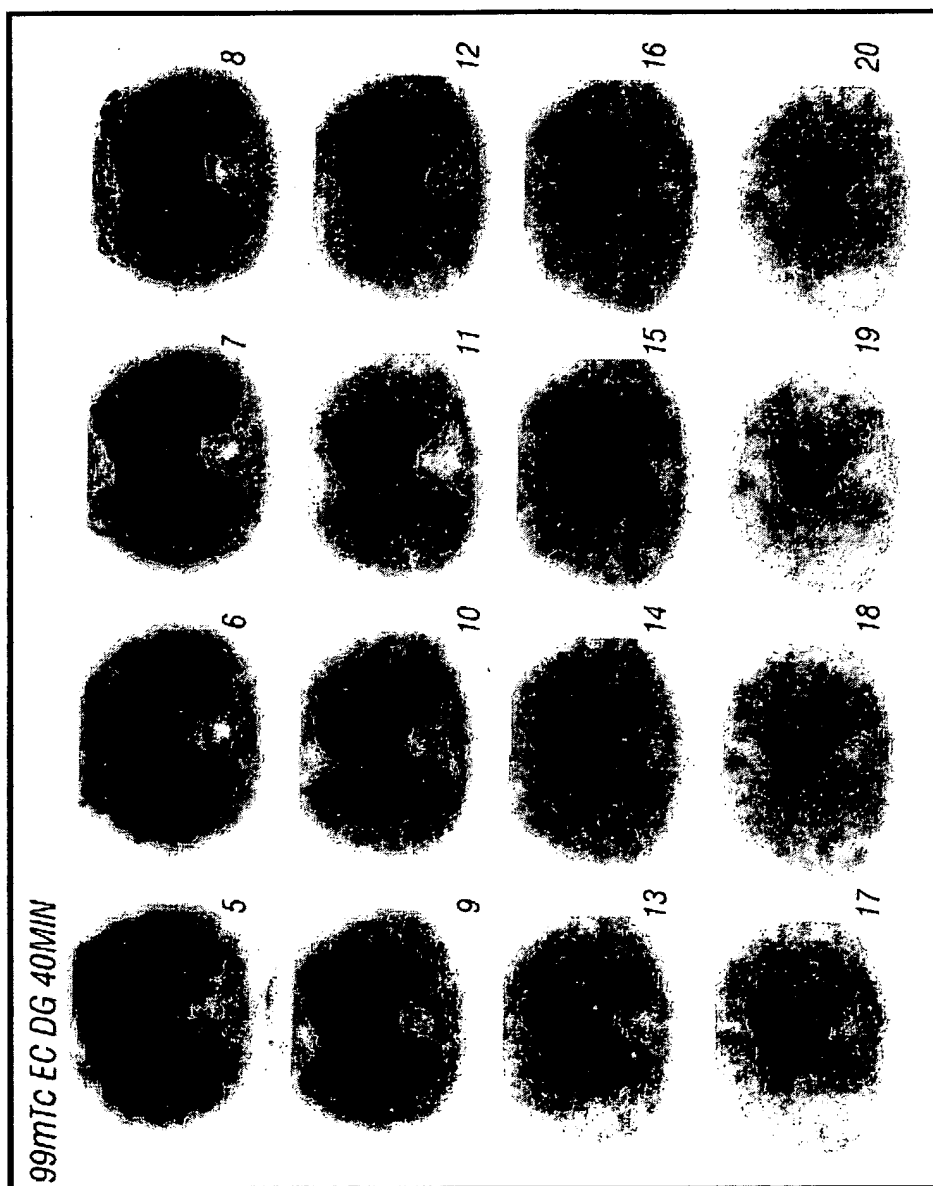
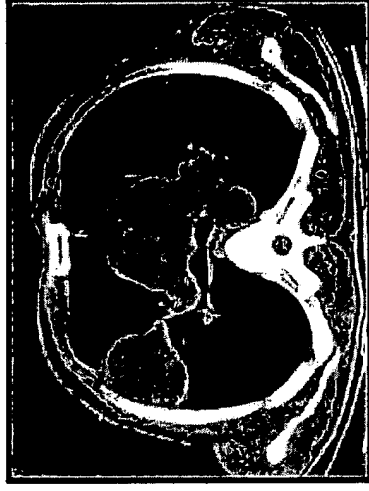


FIG. 85B



PRE RTX



POST RTX

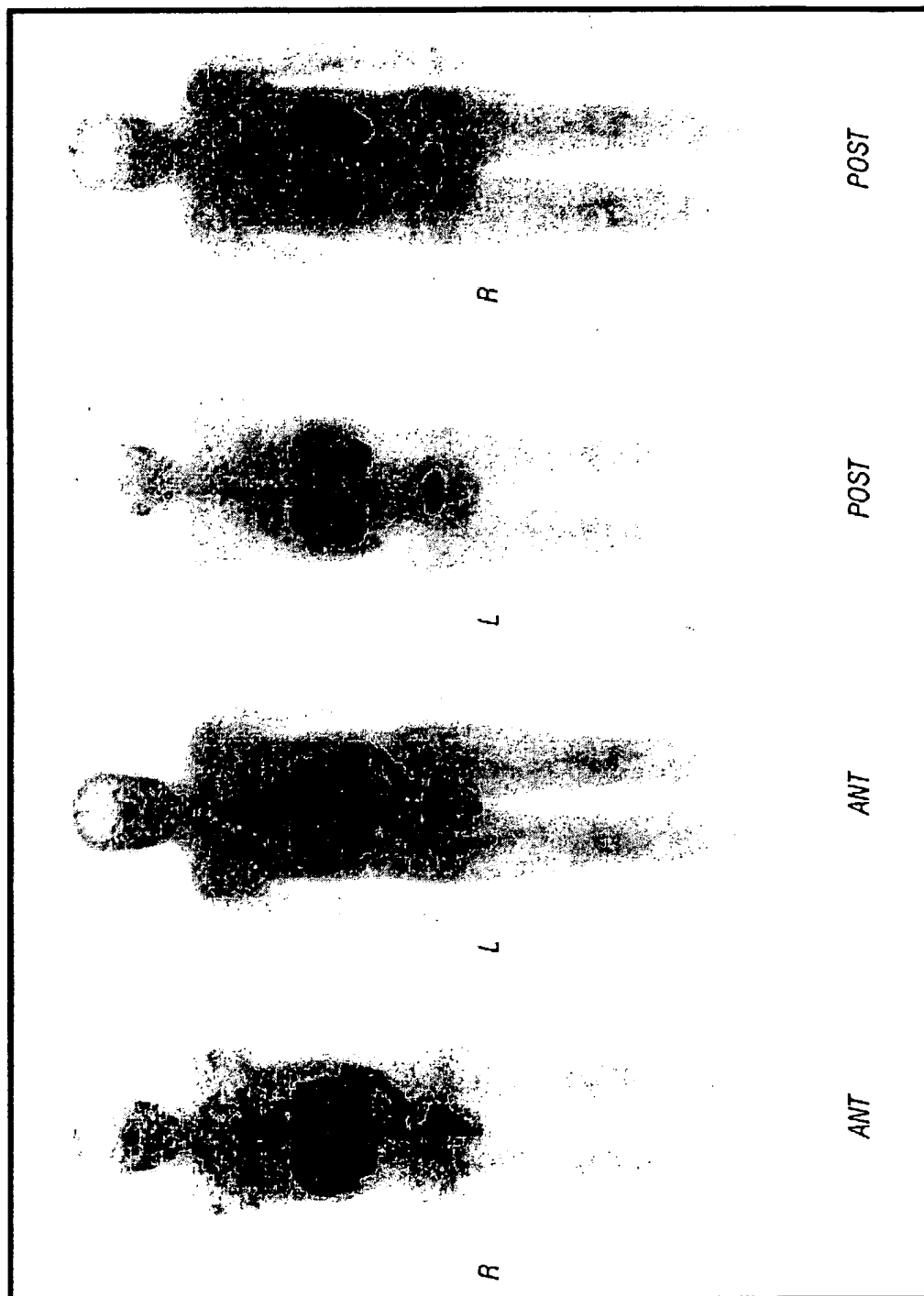


POST RTX



PRE RTX

FIG. 86A



**FIG. 86B**



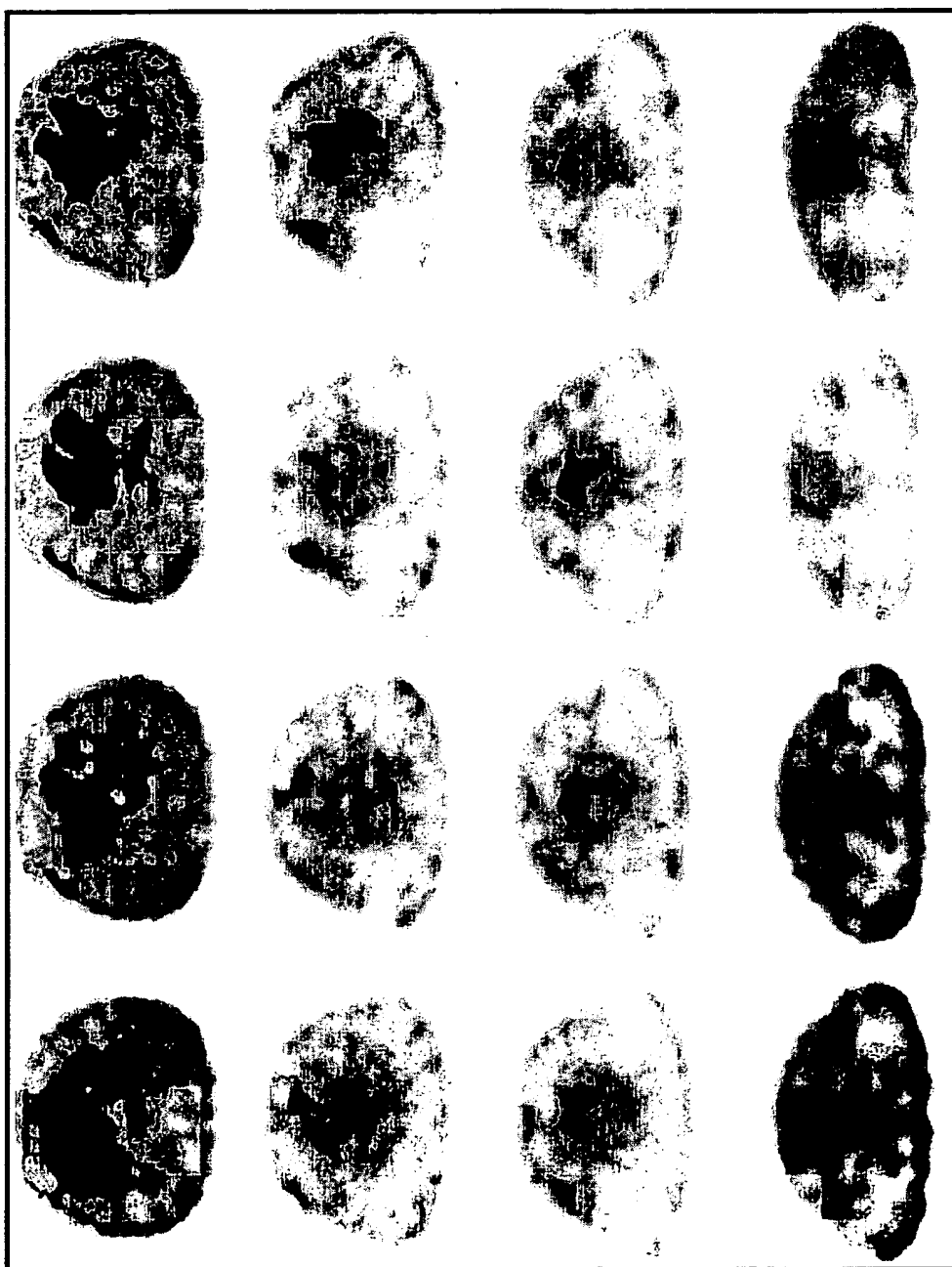


FIG. 86C

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